MAY 31, 2012

RESULTS OF GROUNDWATER MONITORING AND GROUNDWATER EXTRACTION AND TREATMENT PILOT TESTING 2011/2012 ANNUAL REPORT RAYTHEON COMPANY (FORMER HUGHES AIRCRAFT COMPANY FACILITY) 1901 WEST MALVERN AVENUE FULLERTON, CALIFORNIA

PREPARED FOR:
RAYTHEON COMPANY

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

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May 31, 2012

VIA FEDERAL EXPRESS – STANDARD

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DEPARTMENT OF TOXIC SUBSTANCES CONTROL
9211 Oakdale Avenue
Chatsworth, CA 91311-6505

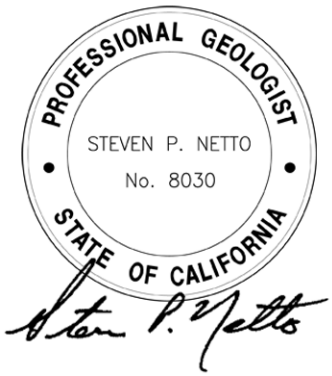
Re: Transmittal of Results of Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, 2011/2012 Annual Report, Raytheon Company, (Former Hughes Aircraft Company Facility), 1901 West Malvern Avenue, Fullerton, California

Dear Mr. Jeffers:

Enclosed is one hard copy, and one compact disc that contains an electronic copy, of the above-referenced report. If you have any questions or require further information, please contact us at 858-455-6500.

Sincerely,

HARGIS + ASSOCIATES, INC.



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RESULTS OF GROUNDWATER MONITORING AND
GROUNDWATER EXTRACTION AND TREATMENT PILOT TESTING
2011/2012 ANNUAL REPORT
RAYTHEON COMPANY
(FORMER HUGHES AIRCRAFT COMPANY FACILITY)
1901 WEST MALVERN AVENUE
FULLERTON, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethylene
AGAWP	Additional Groundwater Assessment Work Plan
ATL	Advanced Technology Laboratories, Inc., Signal Hill, California
cis-1,2-DCE	cis-1,2-Dichloroethylene
CM	Conceptual Model
CMS	Corrective Measures Study
COPCs	Compounds of potential concern
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
DWR	California Department of Water Resources
EPA	United States Environmental Protection Agency
GETS	Groundwater Extraction and Treatment System
GMP	Groundwater Monitoring Program
GMWP/SAP	Groundwater Monitoring Work Plan and Sampling and Analysis Plan
gpm	Gallons per minute
H+A	Hargis + Associates, Inc.
HiPOx	Ozone and hydrogen peroxide
LAS	Lower Aquifer System
MAS	Middle Aquifer System
MCL(s)	Maximum Contaminant Level(s)
msl	Mean sea level
OCGB	Orange County Groundwater Basin
QA/QC	Quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RPD	Relative percent difference
SIM	Selective ion monitoring
the Site	former Raytheon Company facility located at 1901 West Malvern Avenue, Fullerton, California
TCE	Trichloroethylene
TCFM	Trichlorofluoromethane
UAS	Upper Aquifer System
ug/l	Micrograms per liter
VOC(s)	Volatile organic compound(s)

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1.0 INTRODUCTION

This report presents the results of groundwater monitoring and groundwater treatment pilot testing conducted during the second quarter 2011 through the first quarter 2012 at the former Raytheon Company (formerly Hughes Aircraft Company) facility located at 1901 West Malvern Avenue, Fullerton, California (the Site) (Figure 1). Previous investigations at the Site were conducted as part of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) under the direction of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) (Hargis + Associates, Inc. [H+A], 1998). Periodic groundwater monitoring and additional groundwater assessment have been conducted since completion of the RFI to support a Corrective Measures Study (CMS) for the Site under continuing direction of the DTSC. As part of the CMS, an extended groundwater extraction and treatment pilot test began operation in July 2008 (H+A, 2003a, 2003b, 2003c, 2003d, 2004a, 2004b, 2005a, 2005b, 2008b, 2009c, 2009d, 2010a, 2010b, 2011a, 2011f, and 2011h).

Groundwater monitoring consists of measuring groundwater levels and collecting groundwater samples from monitor wells and piezometers at the Site (Figure 2). Quarterly water level measurements and groundwater samples were collected in June 2011, August 2011, October and November 2011 (for the November monitoring event), and February 2012 from accessible monitor wells and piezometers in general accordance with the Groundwater Monitoring Work Plan and Sampling and Analysis Plan (GMWP/SAP), and subsequent addenda except if noted herein (Section 2.1) (Tables 1 and 2) (H+A, 2003c, 2011a, and 2011h).

A summary of regional and local hydrogeologic conditions in the area and at the Site are presented in the following sections. Regional and local hydrogeologic conditions are described in greater detail in previously submitted well construction reports (H+A, 2005c, 2009b, 2010c, and 2011e).

1.1 REGIONAL HYDROGEOLOGIC FRAMEWORK

The Site is located within the Orange County Groundwater Basin (OCGB). Aquifers in the OCGB have been divided into three separate systems called the upper, middle, and lower regional groundwater systems (California Department of Water Resources [DWR], 1967).

The Upper Aquifer System (UAS) is located within the OCGB to the south of Malvern Avenue. The UAS in this area includes stream terrace and older alluvial deposits as well as the La Habra/Lakewood formation. It is believed that coarse-grained facies in the La Habra/Lakewood formation, corresponding to the upper aquifer, pinch out south of the Coyote Hills or are folded and unconformably truncated near the southern boundary of the Site (H+A, 2005c, 2009b, and 2010c).

The Middle Aquifer System (MAS) underlies the UAS to the south of Malvern Avenue and extends to approximately -1,500 feet mean sea level (msl) in this area. The MAS is believed to include the Coyote Hills formation and the San Pedro formation and may include portions of the La Habra formation incised as channels into the underlying Coyote Hills formation.

The Lower Aquifer System (LAS) underlies the MAS and extends to the base of the freshwater zone. The LAS is believed to include portions of the Fernando group of Pliocene age. The base of the freshwater zone in the vicinity of the Site is estimated to be approximately -300 feet msl just north of the Site and -3,000 feet msl south of the Site in the OCGB (DWR, 1967). The base of the freshwater zone immediately beneath the Site has not been established.

Groundwater production in the OCGB is primarily from the lower portion of the UAS and the upper portion of the MAS between approximately -250 feet msl and -1,000 feet msl (DWR, 1967).

1.2 SITE HYDROGEOLOGY

Site hydrostratigraphic units consist of strata having similar hydraulic properties and lithologic characteristics, which have been correlated across the Site. The soils encountered at the Site are generally interbedded sand, silty to clayey sand, sandy silt, and sandy clay, with local gravel layers (H+A, 1998). Evaluation of strata on a relatively small scale, on the order of inches to a foot or two, indicate that soil types encountered in the subsurface are typically very discontinuous, precluding detailed correlation between boreholes. However, some larger-scale correlations have been made at the Site and vicinity as described below.

The groundwater conceptual model (CM) for the Site was refined after completion of additional groundwater assessment activities in 2004 and confirmed and further refined during the 2008 through 2011 well construction activities. Specific results of prior additional assessment activities were documented after discrete phases of work in several well construction and groundwater sampling reports (H+A, 2005c, 2009b, 2010c, and 2011e). The following provides a general overview based on the RFI and well construction reports for the Site.

Two localized perched zones were identified under portions of the Site during the course of the RFI (H+A, 1998). Perched zones were identified based on the occurrence and behavior of groundwater, and are not clearly expressed lithologically. The perched zones do not represent a usable source of groundwater due to the limited area over which they occur and the small quantities of water flowing through these zones.

The regional groundwater system beneath the Site occurs in sand, silt, and clay (H+A, 1998). The upper portion of the regional groundwater system is heterogeneous as indicated by the differences in the lithology encountered during the construction of the groundwater monitor wells. The hydraulic conductivity of these sediments was estimated to range from approximately 0.1 foot per day to approximately 100 feet per day (H+A, 2008). Wells completed in lithologic intervals with varying degrees of hydraulic communication with each other and with aquifer units in the OCGB respond differently to changes in regional water levels. Those in good communication respond rapidly to regional changes, while those in finer-grained or isolated lithologic units exhibit a dampened and delayed response to regional water level

changes. This differential response may also appear as a reversal of the vertical hydraulic gradients in the vicinity of paired monitor well groupings. Such reversals tend to be repeated, representing a seasonally-linked pattern of gradient reversals, from downwards during periods of expected high basin-wide groundwater extraction to upwards during the shorter winter season (Figures 3 through 8) (H+A, 2005c).

The hydrogeology in the southern portion of the Site is heterogeneous and is interpreted to include a structural fold based on regional subsurface studies and on an evaluation of Site lithology, geophysical, water level, and water quality trends (H+A, 2005c, 2009b, 2010c, and 2011e). A groundwater CM was developed as part of the RFI and was subsequently refined to incorporate this structural feature following subsequent phases of additional subsurface exploration, such as exploratory borings and deep monitor wells. The groundwater CM is intended to be descriptive of conditions observed in the subsurface, as well as predictive of geologic and hydrogeologic conditions likely to be encountered in the course of any additional subsurface work. The groundwater CM is intended to describe conditions at both the regional scale and at the smaller, Site-specific scale. It is expected that the groundwater CM will continue to be refined with time as it is continuously tested against additional new groundwater monitoring data and other new data that may become available. The groundwater CM has been refined based on available groundwater monitoring data to date, and the primary geologic/hydrogeologic structural feature at and in the vicinity of the Site is described in the following paragraph.

Strata underlying the southern flank of the Coyote Hills are believed to dip gently southward to the north of the Site, and are well documented to be nearly horizontal in the OCGB south of the Site (DWR, 1967). The southern boundary of the Coyote Hills exhibits a monoclinal fold below the surficial terrace deposits, resulting in local southward dip of approximately 42 degrees between exploratory boring EB-1 and monitor well MW-31 (Figures 9 through 11) (H+A, 2010c).

2.0 GROUNDWATER MONITORING

Groundwater monitoring was conducted in general accordance with the DTSC-approved GMWP/SAP and subsequent addenda (DTSC, 2003 and 2011; H+A, 2003c, 2011a, and 2011h). Groundwater monitoring included water level measurements in all Site monitor wells, piezometers, and extraction wells (Figures 2 and 12). Water levels were measured on June 20, August 1, October 31, and November 1, 2011, and February 6, 2012 (Table 3). Groundwater samples were collected from piezometers and monitor wells according to the analytical schedule detailed in the GMWP/SAP (H+A, 2003c, 2011a, and 2011h), as updated (Tables 1, 4, and 5). Additional groundwater monitoring was conducted as part of routine operation and monitoring of the pilot Groundwater Extraction and Treatment System (GETS) (Section 3.0).

2.1 WELL ACCESSIBILITY AND STATUS

All existing wells and piezometers at the Site were accessible during the groundwater monitoring events (Table 1).

2.1.1 Decommissioned Wells

Several wells and piezometers that were installed prior to and during the RFI, and as part of earlier Site remediation activities, were previously decommissioned during property redevelopment at the Site. Data from wells and piezometers that have been decommissioned provide limited usefulness in the interpretations of ongoing water level and water quality trends at the Site. Therefore, water level and water quality data collected from wells and piezometers that were decommissioned have been excluded from the data tabulations compiled for this report (Tables 2 through 5). Water level and water quality data collected from the wells and piezometers that were decommissioned prior to 2002 were most recently summarized in the April 2002 groundwater monitoring report (H+A, 2002). Water level and water quality data collected from the wells and piezometers that were decommissioned between 2002 and 2003 were most recently summarized in the March 2004 groundwater monitoring report (H+A, 2004c).

2.1.2 Wells Installed Since Approval of the Sampling and Analysis Plan

Monitor well MW-36 was installed after approval of the GMWP/SAP Addendum No. 1 and has been incorporated into the quarterly groundwater monitoring program at the Site (Tables 1 and 2; Figure 2) (DTSC, 2011; H+A, 2011a and 2011h).

2.2 GROUNDWATER LEVELS

Depth to groundwater was measured in all monitor wells, piezometers, and extraction wells. Water level elevations were calculated by subtracting the measured depth to water in each well from its surveyed reference point elevation (Table 3). Groundwater level elevations have been plotted for the perched zone and the regional groundwater system (Figure 12). Water level elevation in Unit B wells has been contoured (Figures 13A through 13D).

2.2.1 Perched Zone Water Levels

A hydrograph presenting historical water level data for the perched zone has been prepared (Figure 14). Water levels in the upgradient (northern) portion of the perched zone were depressed during operation of the voluntary dual-phase extraction system, but gradually recovered in 2000 and 2001 (represented by former piezometers P-02D and P-04 on Figure 14). Since then, water levels in the northern portion of the perched zone have remained relatively stable. The water level elevation in piezometer P-09, which is located in the northern portion of the perched zone, has been stable between about 60 feet msl and 65 feet msl, fluctuating within a range of less than about 2.5 feet over its period of record since installation in mid-2003. Water levels across most of the perched zone do not appear to consistently reflect the seasonal fluctuations observed in regional groundwater system monitor wells at the Site (Section 2.2.2), indicating that the perched zone is not in direct hydraulic communication with the regional groundwater system.

Water level trends observed in the southernmost perched zone piezometer, P-07, suggest that the perched zone merges with the regional groundwater system in this area. Water level increases were observed in piezometer P-07 between December 2005 and June 2006, followed

by a decline to dry conditions by September 2007 (Figure 14). Regional water levels reached historical highs within this same period in mid-2006 and began a continual decline during the last three quarters of 2007. The water level elevation in piezometer P-07 has been relatively stable and slowly increasing since December 2007 while the regional groundwater system continued to decline to historical lows in late 2008. The water level elevation in piezometer P-07 increased by approximately 0.5 foot between March 2011 and February 2012. Trends observed in piezometer P-07 suggest that this piezometer responds to regional water level increases above a certain threshold near approximately 30 feet msl, but does not exhibit a direct hydraulic connection with the regional groundwater system under typical conditions at the Site, where regional groundwater levels are depressed by production well pumping in the OCGB and are lower than 30 feet msl at the Site.

2.2.2 Regional Groundwater System Water Levels

Water level elevations increased in all measured monitor and extraction wells between March 2011 and February 2012, with the exception of extraction well MW-21 which was pumping in February 2012 (Table 3; Figures 3 through 8) (H+A, 2011g). Measured increases ranged from approximately 10 feet at monitor well MW-08 to approximately 20 feet at monitor well MW-09. The highest water level elevation observed in wells at the Site in February 2012 was at monitor well MW-20, at an elevation of approximately 38.4 feet above msl. The lowest static water level elevation observed in monitor wells at the Site in February 2012 was at monitor well MW-26B, at an elevation of approximately 11.4 feet above msl (Table 3; Figure 12).

Hydrographs have been prepared based on water levels measured manually during the period from January 1997 through February 2012, and on data collected automatically using pressure transducer/data-loggers during the period from November 1999 through March 2000 and January 2002 through February 2012. Historical water level data from the regional groundwater system indicate an overall decline in regional groundwater levels from early 1997 through late 2002 (Figures 3 through 8). Water levels began to recover in early 2003; following a record rainfall during the 2004-2005 season, water level elevations in regional groundwater monitor wells at the Site reached historical highs by about the spring of 2006. Water levels then rapidly declined to historical lows by November to December 2008. The majority of water levels have recovered from the historical lows of late 2008. Water level elevations in the regional

groundwater system have generally fluctuated seasonally due to variations in groundwater production and recharge in the groundwater basin and, to a lesser extent, cyclical groundwater extraction from regional production wells in the vicinity that are unrelated to the Site (Figures 3 through 8) (H+A, 2008b, 2009b, 2010a, and 2011g).

Six monitor well clusters/nests are completed in the regional groundwater system, where water levels are monitored at several different vertical intervals to characterize vertical hydraulic gradients between successively deeper portions of the regional groundwater system (EW-01/MW-16/MW-21/MW-24/MW-25, for convenience designated the "Footbridge cluster," MW-23/MW-26A/MW-26B/MW-26C, for convenience designated the "Starbuck cluster", MW-30A/MW-30B, designated the MW-30 nest, MW-32A/MW-32B/MW-32C, designated the MW-32 nest, MW-34A/MW-34B/MW-34C, designated the MW-34 cluster, and MW-35A/MW-35B/MW-35C, designated the MW-35 nest) (Table 2; Figures 12 and 15 through 20). The following provides a summary of vertical hydraulic gradients based on the February 2012 water level measurements at these well clusters/nests (Table 3).

At the Footbridge cluster, the water level elevation in monitor well MW-25 was higher than the water level elevations in the other wells in that cluster, an upward vertical hydraulic gradient was observed between monitor wells MW-25 and MW-24. A downward gradient was observed between extraction well EW-01 and extraction well MW-21, likely due to pumping of MW-21. An upward gradient was observed between monitor wells MW-21 and MW-24. The directions of vertical hydraulic gradients observed between Footbridge cluster monitor and extraction wells are consistent with the directions of past vertical gradients observed at this cluster (Figure 15) (H+A, 2011g).

At the Starbuck cluster, the water level elevation in monitor well MW-23 was higher than the water level elevations in the other wells in that cluster. Downward vertical gradients were observed between monitor wells MW-26A and MW-23, as well as monitor wells MW-26A and MW-26B (Figure 16:) (H+A, 2011g). An upward vertical gradient was observed between monitor wells MW-26B and MW-26C. The directions of vertical hydraulic gradients observed at the Starbuck cluster are consistent with the directions of past vertical gradients observed at this cluster (H+A, 2011g).

At the MW-32 nest, the water level elevation in monitor well MW-32C was higher than the water level elevations in the other wells in that nest. Upward vertical gradients were observed between monitor wells MW-32A and MW-32B, as well as monitor wells MW-32B and MW-32C (Figure 17). The direction of vertical hydraulic gradients observed at the MW-32 nest is consistent with the direction of past vertical gradients observed at this nest (H+A, 2011g).

At the MW-30 nest, the water level elevation in monitor well MW-30B was higher than the water level elevations in monitor well MW-30A. An upward vertical gradient was observed between monitor wells MW-30A and MW-30B (Figure 18). The primary direction of the vertical hydraulic gradient observed at the MW-30 nest is consistent with the direction of the past vertical gradient observed at this nest, with few short periods of gradient reversal occurring historically (H+A, 2011g).

At the MW-34 cluster, the water level elevation in monitor well MW-34A was higher than the water level elevations in the other wells in that cluster. Downward vertical gradients were observed between monitor wells MW-34A and MW-34B, and an upward vertical gradient was observed between monitor wells MW-34B and MW-34C (Figure 19). The direction of vertical hydraulic gradients observed at the MW-34 nest is consistent with the direction of past vertical gradients observed at this nest (H+A, 2011g).

At the MW-35 nest, the water level elevation in monitor well MW-35A was higher than the water level elevations in the other wells in that nest. Downward vertical gradients were observed between monitor wells MW-35A and MW-35B, as well as monitor wells MW-35B and MW-35C (Figure 20). The direction of vertical hydraulic gradients observed at the MW-35 nest is consistent with the direction of past vertical gradients observed at this nest (H+A, 2011g).

Occasional seasonal gradient reversals appear to reflect the variable extent of hydraulic communication between Site wells and the regional MAS of the OCGB (Figures 3 through 8). Water level data obtained from the six monitor well clusters indicate that some wells (e.g., EW-01, MW-23, and MW-26C) are highly responsive to piezometric changes in the basin, whether resulting from regional or seasonal fluctuations or from local production well pumping in the northern portion of Fullerton. Other wells (e.g., MW-16, MW-21, and MW-25) appear to be in partial communication with the regional aquifer, exhibiting a dampened and delayed response

to changes in the regional system or becoming seasonally isolated from the regional system. Finally, some wells (e.g., MW-24, MW-26A, and MW-26B) appear to be relatively isolated from the regional groundwater system, exhibiting relatively low amplitude and gradual seasonal variation, with high water levels typically in the late spring months and low levels in the early fall (Figures 15 and 16).

2.3 CHEMICAL QUALITY OF GROUNDWATER

Two perched zone piezometers, 30 regional groundwater monitor wells, and three extraction wells were sampled in February 2012 (Table 1). All groundwater samples collected during the February 2012 monitoring event were analyzed for volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B. Groundwater samples collected from select piezometers, monitor wells, and extraction wells were also analyzed for 1,4-dioxane using modified EPA Method 8270 in accordance with the groundwater sampling schedule (Table 1). Selective ion monitoring (SIM) was used by the primary laboratory for analysis of 1,4-dioxane to provide lower detection and reporting limits (EPA Method 8270 SIM). Lower reporting limits for 1,4-dioxane resulted in historical low concentrations detected at several wells and a historical high, at a relatively low concentration, at one well as described in the following sections.

Original and duplicate groundwater samples were analyzed by Advanced Technology Laboratories, Inc., Signal Hill, California (ATL) (Appendix A). Laboratory split groundwater samples were analyzed by Exova, formerly Bodycote Testing Group, Santa Fe Springs, California (Appendix A). Chain-of-custody documentation was enclosed with each sample shipment. Results of groundwater sample VOC and 1,4-dioxane analyses have been summarized (Tables 4 and 5).

Prior to groundwater sample collection, each monitor well was purged until three casing or screen volumes were evacuated from the well, or the slow-well protocol was followed for removal of at least one casing or screen volume, as appropriate (H+A, 2003c and 2008b). Groundwater samples were collected from the extraction wellhead(s) during operation of the pilot GETS. Extraction well EW-01 was turned on temporarily for purging and sampling in February 2012 as current operation of the pilot GETS involves extraction from extraction

wells MW-21 and EW-02. Field parameters, including pH, specific conductance, dissolved oxygen, turbidity, and temperature, were monitored during well purging. Groundwater sampling field forms are provided (Appendix B).

Quality assurance/quality control (QA/QC) samples collected in February 2012 consisted of trip blanks, equipment rinsate blanks, field duplicates, and laboratory split samples. Trip blanks and the water used to collect the equipment rinsate blanks were provided by ATL. Field duplicate and/or laboratory split samples were collected for analysis of VOCs and 1,4-dioxane from monitor wells MW-29, MW-30B, MW-32B, MW-34B, and MW-36 in February 2012 (Table 4). Equipment rinsate blanks were collected at the rate of one per day when non-dedicated purging or sampling equipment was used.

The following sections describe the analytical results for VOC and 1,4-dioxane analyses of groundwater samples collected during the February 2012 groundwater monitoring event. Results from quarterly groundwater monitoring rounds conducted in June 2011, August 2011, and October/November 2011 were previously submitted in quarterly data submittals (H+A, 2011i, 2011j, and 2012a).

2.3.1 Perched Water Zone

Two perched zone piezometers, P-07 and P-09, were sampled during the February 2012 groundwater monitoring event (Tables 4 and 5; Figure 21). The groundwater samples collected from perched zone piezometers P-07 and P-09 were analyzed for VOCs and 1,4-dioxane. VOCs detected in the groundwater samples collected from piezometer P-07 in February 2012 include 1,1-dichloroethylene (1,1-DCE) and 1,1-dichloroethane (1,1-DCA). All concentrations were within their respective historical ranges for this piezometer. 1,4-Dioxane was detected in the groundwater sample collected from piezometer P-07 at a concentration of 2,200 micrograms per liter (ug/l), within its historical range. 1,1-DCE was the only VOC detected in the groundwater sample collected from piezometer P-09 in February 2012, at a concentration of 2.0 ug/l, within its historical range at this piezometer. 1,4-Dioxane was detected at piezometer P-09 in February 2012 at a concentration of 0.68 ug/l, a historical low detection at this piezometer (Tables 4).

2.3.2 Regional Groundwater System

Thirty monitor wells and three extraction wells were sampled in February 2012 (Tables 1, 4, and 5; Figure 21). Samples collected from all regional groundwater system monitor and extraction wells were analyzed for VOCs. Groundwater samples collected from select monitor and extraction wells were also analyzed for 1,4-dioxane in accordance with the Groundwater Monitoring Program (GMP).

2.3.2.1 Volatile Organic Compounds in Regional Groundwater System Monitor and Extraction Wells

1,1-DCE was the principal VOC detected in groundwater samples collected from regional groundwater system monitor wells at the Site. The additional VOCs 1,1,2-trichloroethane, 1,1-DCA, chloroform, cis-1,2-dichloroethene (cis-1,2-DCE), toluene, trichloroethylene (TCE), and trichlorofluoromethane (TCFM) were detected at relatively low concentrations in groundwater samples collected in February 2012 (Tables 4). The concentration of 1,1-DCE has decreased significantly from the June 2008 historical highs of 4,900 ug/l in extraction well MW-21, and approximately 1,600 ug/l in extraction well EW-01 since operation of the pilot GETS started in July 2008. 1,1-DCE was detected in groundwater samples collected from monitor well MW-26C beginning in December 2007 through December 2009. The concentration of 1,1-DCE at monitor well MW-26C generally declined since December 2007, with recent results non-detect at a concentration of less than 0.5 ug/l in March 2010 through February 2012. Historical concentration ranges were evaluated for June 2011 through March 2012. VOC concentrations were generally within their respective historical ranges with the following exceptions. Historical high concentrations of 1,1-DCE were detected in the groundwater samples collected from monitor wells MW-29 and MW-32B at an estimated concentration of 900 ug/l and a concentration of 77 ug/l, respectively (Tables 4 and 5). An historical low concentration of 1,1-DCE was detected in the groundwater sample collected from monitor well MW-33 of 0.17 ug/l in November 2011. In February 2012, a relatively low historical high concentration of TCFM was detected in the groundwater sample collected from monitor well MW-13 at a concentration of 5.3 ug/l. Historical low concentrations of 1,1-DCE and chloroform were observed in the groundwater samples collected from monitor wells MW-28 and MW-35A, at concentrations of 0.84 ug/l and 4.4 ug/l, respectively. The concentrations of TCE and toluene

in samples collected from monitor wells MW-33 and MW-34C were also historically low with a non-detect of less than 0.50 ug/l in February 2012. 1,1-DCA was not detected in extraction well EW-02 in March 2012. This represents an historical low for this well.

2.3.2.2 1,4-Dioxane in Regional Groundwater System Monitor and Extraction Wells

In February 2012, 1,4-dioxane was detected in groundwater samples collected from regional groundwater system monitor wells MW-08, MW-16, MW-29, MW-30B, MW-32B, and MW-34B, and extraction wells EW-01, EW-02, and MW-21. For June 2011 through March 2012, historical low concentrations of 1,4-dioxane were detected in the groundwater samples collected from monitor well MW-30B and extraction well EW-02 at concentrations of 0.3 ug/l and 6.4 ug/l, respectively. The concentrations of 1,4-dioxane in samples collected from monitor wells MW-20, MW-24, MW-27, MW-28, MW-30A, and MW-31 were also historically low with a non-detect of less than 0.20 ug/l in February 2012.

2.3.2.3 Groundwater Quality in Site Hydrostratigraphic Zones

The following describes 1,1-DCE and 1,4-dioxane detected at the Site in February 2012 within the framework of the Site groundwater CM hydrostratigraphic zones (Tables 1, 4, and 5; Figures 9 through 11 and 21).

- Six of seven monitor wells screened in Unit A (MW-18, MW-19, MW-22, MW-23, MW-34A, and MW-35B) were sampled for VOCs in February 2012. 1,1-DCE was not detected in groundwater samples collected from any of the six Unit A monitor wells sampled in February 2012. Four of the six monitor wells sampled for VOCs were also sampled for 1,4-dioxane (MW-18, MW-22, MW-34A, and MW-35B). 1,4-Dioxane was not detected in groundwater samples collected from these Unit A monitor wells.

- Three of five monitor wells screened in Unit AB (MW-13, MW-15, and MW-32A) were sampled for VOCs in February 2012. 1,1-DCE was not detected in groundwater samples collected from any of the three Unit AB monitor wells sampled in February 2012. Two of the three monitor wells sampled for VOCs were also sample for

1,4-dioxane (MW-13 and MW-32A). 1,4-Dioxane was not detected in groundwater samples collected from these two Unit AB monitor wells.

- All 12 monitor wells (MW-16, MW-26C, MW-27, MW-28, MW-29, MW-30A, MW-31, MW-32B, MW-33, MW-34B, MW-35C, and MW-36) and two extraction wells (EW-01 and EW-02) screened in Unit B (Target Zone) were sampled for VOCs and 1,4-dioxane in February 2012. 1,1-DCE was detected in all Unit B monitor wells with the exceptions of MW-26C, MW-27, and MW-35C. 1,1-DCE was detected at concentrations of 900 ug/l (estimated), 550 ug/l (estimated), 95 ug/l, 73 ug/l, 26 ug/l, 3.9 ug/l, 2.9 ug/l, 0.84 ug/l, and 0.66 ug/l at monitor wells MW-29, MW-34B, MW-16, MW-32B, MW-31, MW-33, MW-36, MW-28, and MW-30A, respectively. 1,4-Dioxane was not detected in Unit B monitor wells with the exceptions of MW-16, MW-29, MW-32B, and MW-34B. 1,4-Dioxane was detected at concentrations of 130 ug/l (estimated), 64 ug/l (estimated), 44 ug/l, and 1.5 ug/l at monitor wells MW-29, MW-34B, MW-16, and MW-32B, respectively. 1,1-DCE and 1,4-dioxane were detected at concentrations of 59 ug/l and 11 ug/l, respectively, at extraction well EW-01. 1,1-DCE and 1,4-dioxane were detected at concentrations of 54 ug/l and 6.4 ug/l, respectively, at extraction well EW-02. VOCs have not historically been detected at Unit B monitor well MW-27.

- Three monitor wells (MW-08, MW-30B, and MW-34C) and one extraction well (MW-21) screened in Unit BC were sampled for VOCs and 1,4-dioxane in February 2012. 1,1-DCE was detected in monitor wells MW-08 and MW-30B and extraction well MW-21. 1,1-DCE was detected at concentrations of 520 ug/l, 29 ug/l, and 14 ug/l at extraction well MW-21, and monitor wells MW-08 and MW-30B, respectively. The concentration of 1,1-DCE has declined from 4,900 ug/l in June 2008 (prior to startup of the pilot GETS) to 520 ug/l in February 2012 at extraction well MW-21. TCE was also detected in monitor wells MW-08 and MW-30B and extraction well MW-21 in February 2012, at concentrations of 170 ug/l, 75 ug/l, and 11 ug/l, respectively. 1,1-DCE has not been detected in recently installed monitor well MW-34C. 1,4-Dioxane was detected at concentrations of 33 ug/l, 0.94 ug/l, and 0.30 ug/l, in samples collected from extraction well MW-21 and monitor wells MW-08 and MW-30B, respectively. The concentration of 1,4-dioxane at extraction well MW-21 has declined from 370 ug/l in June 2008 (prior to startup of the pilot GETS) to 33 ug/l in February 2012, and is within the historical

range for this well. 1,4-Dioxane was not detected in monitor well MW-34C in February 2012.

- All three monitor wells screened in Unit C (MW-09, MW-24, and MW-32C), were sampled for VOCs and 1,4-dioxane in February 2012. VOCs were not detected in groundwater samples collected from monitor wells MW-09, MW-24, and MW-32C. 1,4-Dioxane was not detected in groundwater samples collected from monitor wells MW-09, MW-24, and MW-32C.

- Two of three monitor wells screened in Unit D (MW-06 and MW-20) were sampled for VOCs in February 2012. 1,1-DCE was not detected in a groundwater sample collected from monitor well MW-06. 1,1-DCE was detected at a concentration of 2.8 ug/l in a groundwater sample collected from MW-20. 1,4-Dioxane was not detected in a groundwater sample collected from monitor well MW-20 in February 2012.

VOC and 1,4-dioxane concentrations will continue to be monitored to evaluate vertical and lateral distribution and to assess trends within and across the Site hydrostratigraphic zones.

2.3.3 Quality Assurance/Quality Control

QA/QC samples, including field duplicates, laboratory split samples, equipment rinsate blanks, and trip blanks, were collected and analyzed for VOCs during the February 2012 monitoring event (Appendix A). In addition, field duplicates and laboratory split samples were collected and analyzed for 1,4-dioxane in February 2012. The relative percent difference (RPD) was calculated between the results of each field duplicate and each laboratory split sample with its corresponding original sample. Data quality assessment results for the June, August, and November 2011 groundwater monitoring events were previously reported in their respective groundwater monitoring data submittals (H+A, 2011i, 2011j, and 2012a). The data quality assessment for February 2012 indicated that all QA/QC results for groundwater samples are within acceptable criteria, with the following exceptions:

- The RPD calculated between the original and split laboratory sample results for 1,1-DCE and 1,4-dioxane in monitor well MW-34B in February 2012 exceeded acceptance criteria. Therefore, the detections of 1,1-DCE and 1,4-dioxane in the original, duplicate. and split samples are qualified as estimated "E" (Table 4; Appendix A).

- The RPD calculated between the original and split laboratory sample results for 1,1-DCE and 1,4-dioxane in monitor well MW-29 in February 2012 exceeded acceptance criteria. Therefore, the detections of 1,1-DCE and 1,4-dioxane in the original, duplicate, and split laboratory samples are qualified as estimated "E" (Table 4; Appendix A).

VOCs and 1,4-dioxane were not detected in the trip, method, or equipment rinsate blanks analyzed with groundwater samples collected during the February 2012 groundwater monitoring event (Table 4; Appendix A),

In addition QA/QC trip blanks were collected as part of the monthly and quarterly GETS sampling events in accordance with the GETS monitoring sampling schedule (Table 6). There were no detections of analytes sampled for the GETS quarterly and monthly monitoring in the trip or method blanks with the following exception:

- Iron was detected at a concentration of 0.61 milligrams per liter in a method blank analyzed by ATL on March 14, 2012. Iron was not detected in any associated samples and, therefore, no data was qualified (Table 7).

2.3.4 Adequacy of and Proposed Optimization to the Groundwater Monitoring Program

In accordance with Amendment A of Addendum No. 1 to the GMWP/SAP the existing GMP was reviewed for adequacy based on results collected during the past four quarters of sampling. VOC and/or 1,4-dioxane concentrations did not increase above historical high concentrations for two consecutive monitoring events in monitor wells that are not already sampled quarterly (Tables 1 and 4) (H+A, 2011h). Based on this review, no increase in sampling frequency is indicated for any of the monitor wells at the Site.

The following changes to the existing GMP are proposed to optimize data collection from the Site as outlined in the DTSC-approved Addendum No. 1 to the GMWP/SAP (Revision 1.0), Amendment A (DTSC, 2011; H+A, 2011a and 2011h):

The sampling frequency of monitor wells MW-32A (Unit AB) and MW-32C (Unit C) will be conducted annually (Table 1). This represents a decrease in sampling frequency at these wells from quarterly to annually; the next sampling will be scheduled for February 2013. These two monitor wells have been consistently non-detect for VOCs and have exhibited sporadic detections of 1,4-dioxane at or below the California or federal reporting or action levels for more than eight consecutive monitoring events and therefore are now proposed to be sampled annually.

3.0 GROUNDWATER EXTRACTION AND TREATMENT PILOT STUDY

This section summarizes the pilot GETS operation within the three-month period of monitoring conducted during the first quarter of 2012. The pilot GETS consists of three groundwater extraction wells, the treatment system, and the disposal system. Operation of the GETS from January 1, 2012 through March 9, 2012 consisted of using two extraction wells, EW-02 and MW-21. Extraction well MW-21 was brought online on December 5, 2011 in order to conduct a synthetic media pilot test using water collected from extraction well MW-21. The synthetic media pilot test was completed during February 2012 and extraction well MW-21 was taken offline on March 9, 2012. Operation of the GETS from March 9, 2012 through March 31, 2012 consisted of using only one extraction well, EW-02. The treatment system processes extracted groundwater through an advanced oxidation unit that utilizes ozone and hydrogen peroxide (HiPOx), followed by a granular activated carbon polish prior to disposal to the sanitary sewer. A graphical representation of the system operational time in relation to water level measurements at current extraction well EW-02 and the previously utilized extraction wells MW-21 and EW-01 have been provided (Figure 22).

Initial startup of the pilot GETS took place on Tuesday, July 8, 2008. From July 2008 through November 2009, the pilot GETS was operated with extraction wells EW-01 and MW-21 operating at approximately 10 gallons per minute (gpm) each. Pilot GETS expansion took place between November 2009 and March 2010 in order to incorporate recently installed extraction well EW-02 into the extraction well network. The system maximum flowrate was also increased from 20 gpm to 50 gpm. Beginning in March 2010, the pilot GETS was operated at 50 gpm, entirely from extraction well EW-02. During December 2011, a synthetic media pilot test was started. The purpose of the synthetic media pilot test was to evaluate the efficacy of treating water collected from extraction well MW-21 using a synthetic media for contaminant removal. In order to conduct the synthetic media pilot test, extraction wells EW-02 and MW-21 operated at approximately 40 gpm and 10 gpm, respectively. The synthetic media pilot test was completed during February 2012. After completion of the synthetic media pilot test, extraction well MW-21 was taken offline on March 9, 2012 and the GETS was subsequently operated at 50 gpm entirely from extraction well EW-02.

During the first quarter 2012, the pilot GETS was operational approximately 85 percent of the available runtime and approximately 5,261,283 gallons of groundwater were treated and discharged to the sanitary sewer (Table 8). The average monthly discharge flowrate to the sanitary sewer during January through March 2012 was approximately 40.2 gpm. Since startup of the pilot GETS, approximately 49,460,853 gallons of groundwater have been treated at an average flowrate of 25.1 gpm through the end of March 2012 (Table 8).

Current monthly and quarterly pilot GETS monitoring activities include collecting samples from extraction wells EW-02 and MW-21 in addition to collecting samples at the following treatment system sampling ports: Influent, Post Particulate Filter, Post HiPOx Oxidation, Carbon Breakthrough, and Carbon Effluent (Tables 6 and 7; Figure 23). Samples collected during these activities were sent to ATL. Analytical results of the treatment system samples have been summarized (Table 7; Appendix A).

The pilot GETS system was shut down for expansion from approximately October 2009 to March 2010. The expansion was completed and extraction and treatment of groundwater resumed in March 2010. The pilot GETS was restarted on March 22, 2010 with extraction and treatment of groundwater from extraction well EW-02 at a rate of approximately 50 gpm. Extraction well MW-21 was brought online on December 5, 2011 for the purpose of conducting a synthetic media pilot test. Extraction well MW-21 was taken offline on March 9, 2012 following completion of the synthetic media pilot test. The system is currently operating with extraction well EW-02 at a flowrate of 50 gpm. Extraction wells MW-21 and EW-01 are on standby for the current phase of pilot testing, but may be used for future phases of pilot testing or as part of a full-scale pump and treat system.

The pilot GETS continues to remove VOCs and 1,4-dioxane from extracted groundwater. The HiPOx ozone/peroxide advanced oxidation and carbon adsorption treatment units effectively removed VOCs from extracted groundwater. Breakthrough of low-level detections of VOCs was not observed in the first quarter 2012 monitoring samples with the exception of detections of 1,1-DCA at concentrations ranging from 2.3 ug/l to 3.2 ug/l, which are just above the laboratory reporting limit, but below the pilot GETS permitted sewer discharge limit (Table 8). The effluent sample collected from the HiPOx advanced oxidation treatment unit contained low-level

detections of bromate, a secondary by-product, during operations in the first quarter 2012. Carbon adsorption does not effectively remove this compound; however, this compound was detected at concentrations below the pilot GETS permitted sewer discharge limit. The operation of the advanced oxidation system continues to be optimized in an attempt to minimize the formation of bromate (Figure 24).

During the first quarter of 2012, the pilot GETS removed approximately 10.4 pounds of VOCs and 0.82 pounds of 1,4-dioxane from extracted groundwater. Since startup of the pilot GETS in July 2008, approximately 107.2 pounds of VOCs and 17.7 pounds of 1,4-dioxane have been removed from groundwater through March 2012 (Figure 25).

4.0 DISCUSSION

Perched zone water levels have remained relatively stable with one notable exception. A high water level elevation was observed at piezometer P-07 during the mid-2006 historical high regional groundwater levels, when the regional water table rose into the southern, lower levels (toe) of the perched zone. The water level in piezometer P-07 declined in late 2006 and 2007 as the regional groundwater level declined. Water levels observed at piezometer P-07 have since recovered to similar water level elevations historically observed at this piezometer. To the north, water levels in perched zone piezometer P-09 have remained relatively stable, and water levels in this portion of the perched zone do not exhibit seasonal variation (Figure 14). Water quality data obtained from the perched zone indicate that the perched zone remediation system that operated from about late 1998 to 2000 was effective at reducing concentrations of VOCs, particularly 1,1-DCE, in perched zone water (H+A, 2000). VOC concentrations in the perched zone have apparently stabilized after a long-term decline. 1,4-Dioxane concentrations remain relatively stable in perched zone water (Table 4).

Regional groundwater system water level data obtained in February 2012 indicate a continuation of the seasonal variations superimposed on long-term trends. The water level declines observed between mid-2006 and December 2008 represent the most rapid overall decline observed during the period of monitoring with water levels decreasing from historical highs to historical lows in all Site regional groundwater system monitor and extraction wells (Figures 3 through 8). The most dramatic declines were observed in wells completed in Unit B, where the water level decline between mid-2006 and December 2008 was about 70 feet. Water level elevations in Site monitor wells have since exhibited recovery and seasonal trend variation.

The following conclusions have been formulated regarding the regional groundwater system based on previous investigations and recent monitoring conducted at the Site. The operations formerly conducted at the Site have impacted two areas of the regional groundwater system.

- The first area is located where the perched zone merges with the regional groundwater system near monitor well MW-16 (Figures 2 and 9).
  - Historically, the regional groundwater level at monitor well MW-16 has been lower than the water level at the toe of the perched zone in piezometer P-07. However, water levels reached historical highs in regional groundwater system monitor wells at the Site in March and June 2006, and the water level elevation in monitor well MW-16 was at a similar elevation as the water level in piezometer P-07 (Figures 5 and 14). By September 2006, the water level elevation in monitor well MW-16 had again decreased to below the water level in piezometer P-07, and has since remained below the elevation of the toe of the perched zone (Figures 5, 9, and 14).
  - The compounds of potential concern (COPCs) are limited to VOCs (principally 1,1-DCE) and 1,4-dioxane.
  - VOC concentrations at monitor well MW-16 have been variable, and in February 2012, concentrations remained within the historical ranges for this well (Tables 4 and 5).
  - VOC concentrations at extraction well EW-01, adjacent to and screened over a greater interval than monitor well MW-16, are variable, with the initial samples collected in June and September 2005 exhibiting similar concentrations of VOCs as detected in monitor well MW-16. Concentrations of 1,1-DCE in extraction well EW-01 were lower than those detected in monitor well MW-16 from December 2005 through September 2007. In December 2007, concentrations of all VOCs detected in extraction well EW-01 were equal to or higher than those detected in monitor well MW-16. The concentrations of 1,1-DCE and 1,4-dioxane detected in samples collected from extraction well EW-01 have declined since the startup of the pilot GETS in June 2008.
  - VOC concentrations at extraction well MW-21, which is located adjacent to and screened deeper than monitor well MW-16 and extraction well EW-01, suggest that VOC concentrations are higher several tens of feet below the water table than at the water table in this vicinity. This may be a result of the greater effectiveness of the former perched zone remediation system near the water table, or it may represent remnant VOCs at depth in this slightly less transmissive or more isolated hydrostratigraphic zone. Since the pilot GETS has been operational, the

concentration of 1,1-DCE has declined in extraction well MW-21 from its historical high of 4,900 ug/l in June 2008 to 520 ug/l in February 2012 (Table 4). The concentration of 1,4-dioxane has declined in extraction well MW-21 since startup of the pilot GETS from 370 ug/l in June of 2008 to 33 ug/l in February 2012 (Table 4).

- 1,4-Dioxane was detected near the detection limit in two groundwater samples collected from monitor well MW-24 in March 2007 and December 2010. 1,4-Dioxane was not detected in the sample collected in February 2012. COPCs have not been otherwise detected in groundwater samples collected from this well. The March 2007 and December 2010 detections are considered anomalous. The general lack of COPCs detections in monitor well MW-24, which is located adjacent to and screened approximately 100 feet deeper than extraction well MW-21, demonstrates that the vertical extent of contamination in the vicinity of these wells is defined.
- In December 2007, the detections of VOCs and 1,4-dioxane at monitor well MW-26C represented the first confirmed historical detections of these analytes in this well (H+A, 2008a). In monthly and quarterly monitoring samples collected during 2008, concentrations of 1,1-DCE and 1,4-dioxane detected in groundwater samples collected from monitor well MW-26C exhibited a generally declining trend from the concentrations detected in the December 2007 groundwater samples. Monitor well MW-26C is completed in Unit B, the same zone as extraction well EW-01 (Figure 9). The rapid change in water level elevations in these two wells, from historically high water level elevations in mid-2006 to historically low water level elevations observed in these wells since December 2007, and the accompanying historically high concentrations of VOCs and 1,4-dioxane detected in groundwater samples collected from these wells in December 2007, continue to suggest that Unit B is the primary transport zone. Monitor wells MW-27, MW-28, MW-29, MW-30A, and MW-30B were installed in 2008 and monitor wells MW-31, MW-32 nest, and extraction well EW-02 were installed in 2009 to delineate the distribution of 1,1-DCE and 1,4-dioxane in Unit B on the southern portion of the Site, and increase groundwater capture and accomplish greater remediation of groundwater within the primary transport zone (H+A, 2008b, 2009c, 2009d, and 2010c). In July 2010, an additional monitor well (MW-33) was installed to delineate the distribution of 1,1-DCE and 1,4-dioxane southwest of the Site (H+A, 2010c). In

December 2010 through February 2011, additional monitor wells (MW-34 cluster and MW-35 nest) were installed to delineate the distribution of 1,1-DCE and 1,4-dioxane off-Site to the west and south of the Site, respectively (H+A, 2011e). In December 2011 through January 2012, additional monitor well MW-36 was installed to further delineate the distribution of 1,1-DCE and 1,4-dioxane off-Site to the west and south of the Site, respectively (H+A, 2011f and 2012b). Detections of 1,1-DCE and/or 1,4-dioxane have occurred in groundwater samples collected from monitor wells MW-28, MW-29, MW-30A, MW-31, MW-32B, MW-33, MW-34B, MW-36 and extraction well EW-02 since their construction (Table 4) (H+A, 2009b, 2009e, 2010c, 2011c, 2011d, 2012a, and 2012b). VOCs and 1,4-dioxane have historically not been detected in monitor well MW-27, delineating groundwater impacts in that area within the primary transport zone. The proposed work outlined in Addendum No. 2A of the Additional Groundwater Assessment Work Plan (AGAWP) and Addendum No. 4A of the Groundwater Extraction and Treatment System Pilot Testing Corrective Measures Study Work Plan was completed and was summarized in the Well Construction and Groundwater Sampling Report Additional Groundwater Assessment Primary Transport Zone and Groundwater Extraction Treatment System Pilot Testing (H+A, 2009c, 2009d, and 2010c). The proposed work outlined in Addendum No. 3 of the AGAWP was completed and was summarized in the Well Construction Report Additional Groundwater Assessment Primary Transport Zone and Groundwater Extraction Treatment System Pilot Testing (H+A, 2010b and 2011e). One of the additional off-Site monitor wells proposed in Addendum No. 4 of the AGAWP to further delineate VOCs and 1,4-dioxane in Unit B to the west of the Site was recently constructed, monitor well MW-36, and another is nearing commencement of construction activities, monitor well MW-37 (H+A, 2011f and 2012b).

- The second area of impact is located away from the perched zone and exhibits sporadic detections of TCE, 1,1-DCE, and TCFM in the vicinity of monitor well MW-15; and 1,1-DCE, benzene, TCE, cis-1,2-DCE, and low concentrations of other VOCs and 1,4-dioxane at monitor well MW-08. Samples collected from monitor well MW-30B, installed in November 2008, exhibit a similar VOC composition of TCE, 1,1-DCE, and

cis-1,2-DCE as samples collected from monitor well MW-08, also screened in Unit BC (Figures 18 and 26).

- Historically, VOC concentrations have generally remained near or below Maximum Contaminant Levels (MCLs) at monitor well MW-15. 1,1-DCE was not detected in groundwater samples collected from monitor well MW-15 in February 2012 and remains within the respective historical ranges for monitor well MW-15 (Table 4). The concentrations of TCE detected in this well have been consistently below the California and Federal MCLs since June 2007.
- Concentrations of VOCs detected in monitor well MW-08 prior to March 2004 were generally near or below the drinking water MCLs for the respective compounds (H+A, 2004c). More recently, concentrations of 1,1-DCE and TCE detected in samples collected from monitor well MW-08 have exceeded their respective MCLs (Table 4). In June 2006, the detected concentrations of 1,1-DCE, 1,1-DCA, tetrachloroethylene, and 1,4-dioxane in groundwater samples collected from monitor well MW-08 represented historical high concentrations for this well (Figure 26). In February 2012, the VOCs 1,1-DCE, cis-1,2-DCE, and TCE were detected at concentrations within the respective historical ranges for monitor well MW-08. The concentrations of 1,1-DCE, cis-1,2-DCE, and TCE remain at or above California and/or Federal MCLs. 1,4-Dioxane was detected at a concentration of 0.94 ug/l in the groundwater sample collected from monitor well MW-08 in February 2012.
- The VOCs detected at monitor well MW-30B, TCE, 1,1-DCE, and cis-1,2-DCE, are similar to the VOCs detected at monitor well MW-08. In February 2012, the VOCs TCE, 1,1-DCE, and cis-1,2-DCE were detected in groundwater samples collected from monitor well MW-30B at concentrations of 75 ug/l, 14 ug/l, and 4.2 ug/l, respectively. Both MW-08 and MW-30B are screened in Unit BC near the western portion of the Site. 1,4-Dioxane was detected at a concentration of 0.30 ug/l in the groundwater sample collected from monitor well MW-30B in February 2012.

5.0 REFERENCES

California Department of Water Resources (DWR), 1967. Progress Report on Groundwater Geology of the Coastal Plain of Orange County. July 1967.

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), 2003. Letter to P. Brewer, Raytheon Systems Company, from A. Plaza, DTSC, re Review of Additional Groundwater Assessment Workplan and Groundwater Monitoring Workplan and Sampling and Analysis Plan. May 20, 2003.

_____, 2009. Letter to P. Brewer, Raytheon Systems Company, from W. Jeffers, DTSC, re Conditional Approval of Groundwater Extraction and Treatment System Pilot Testing, Corrective Measures Study Workplan Addendum No. 4A, Raytheon Company (Former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. June 1, 2009.

_____, 2011. Email from W. Jeffers, DTSC, re: Conditional Approval of Addendum No. 1 to the Ground Water Monitoring Work Plan, Raytheon Fullerton, dated June 7, 2011.

Hargis + Associates, Inc. (H+A), 1998. RCRA Facility Investigation, Raytheon Systems Company (formerly Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. July 10, 1998.

_____, 2000. Dual Phase Extraction System and Soil Vapor Extraction System Final Status Report, Raytheon Company, 1901 West Malvern Avenue, Fullerton, California. November 7, 2000.

_____, 2002. Results of Groundwater Monitoring, April 2002, Raytheon Company (formerly Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. May 21, 2002.

_____, 2003a. Corrective Measures Study Work Plan (Revision 1.0), Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. April 25, 2003.

_____, 2003b. Additional Groundwater Assessment Work Plan (Revision 1.0), Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. April 25, 2003.

_____, 2003c. Groundwater Monitoring Work Plan and Sampling and Analysis Plan (Revision 1.0), Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. April 25, 2003.

_____, 2003d. Letter from C. Ross and S. Netto, H+A, to W. Jeffers, DTSC, re: Addendum No. 1 to the Corrective Measures Study Work Plan (Revision 1.0), Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California, dated June 20, 2003.

_____, 2004a. Additional Groundwater Assessment Work Plan Addendum No. 1, Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. March 23, 2004.

_____, 2004b. Groundwater Treatment Pilot Testing Corrective Measures Work Plan (Revision 1.0), Addendum No.2, Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. April 20, 2004.

_____, 2004c. Results of Groundwater Monitoring, March 2004, Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. May 20, 2004.

_____, 2005a. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Addendum 3, Groundwater Treatment Pilot Testing, Corrective Measures Study Work Plan, Former Raytheon Company Site, 1901 West Malvern Avenue, Fullerton, California, dated January 18, 2005.

_____, 2005b. Groundwater Extraction and Treatment Pilot Testing, Corrective Measures Study Work Plan, Addendum No. 4, Raytheon Company (former Hughes Aircraft Company) 1901 West Malvern Avenue, Fullerton, California. March 11, 2005.

_____, 2005c. Deep Boring and Well Construction and Groundwater Sampling Report, Raytheon Company, 1901 West Malvern Avenue, Fullerton, California. March 30, 2005.

_____, 2008a. Results of Groundwater Monitoring, December 2007, Raytheon Company (formerly Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. February 1, 2008.

_____, 2008b. Additional Groundwater Assessment Work Plan Addendum No. 2, Raytheon Company (formerly Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. February 1, 2008.

_____, 2009a. Results of Groundwater Monitoring, December 2008, Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. March 10, 2009.

_____, 2009b. Additional Groundwater Assessment Primary Transport Zone (Target Zone) Well Construction and Groundwater Sample Report. Raytheon Company, 1901 West Malvern Avenue, Fullerton, California. March 26, 2009.

_____, 2009c. Additional Groundwater Assessment Work Plan Addendum No. 2A. Raytheon Company, 1901 West Malvern Avenue, Fullerton, California. March 31, 2009.

_____, 2009d. Groundwater Extraction and Treatment System Pilot Testing Corrective Measures Study Work Plan Addendum No. 4A. Raytheon Company, 1901 West Malvern Avenue, Fullerton, California. March 31, 2009.

_____, 2009e. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Summary of Monitor Well MW-31 Construction and Testing (Task 1) and Plan to Install and Test Off-Site Monitor Well MW-32 (Task 2), Raytheon Company, (Former Hughes Aircraft Company) 1901 West Malvern Avenue, Fullerton, California, dated October 22, 2009.

_____, 2010a. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Summary of Off-Site Monitor Well MW-32 Construction and Testing and Plan to Install and Test Proposed Off-Site Monitor Well MW-33, Task 2 of Additional Groundwater Assessment Work Plan Addendum No. 2A, Raytheon Company, (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California, dated February 9, 2010.

_____, 2010b. Additional Groundwater Assessment Work Plan Addendum No. 3. Raytheon Company, 1901 West Malvern Avenue, Fullerton, California. October 15, 2010.

_____, 2010c. Well Construction And Groundwater Sampling Report Additional Groundwater Assessment Primary Transport Zone (Target Zone) And Groundwater Extraction Treatment System Pilot Testing, Raytheon Company (Former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. November 18, 2010.

_____, 2010d. Results of Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, Third Quarter 2010, Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. December 17, 2010.

_____, 2011a. Letter to W. Jeffers, DTSC, re: Addendum No. 1 to the *Groundwater Monitoring Work Plan and Sampling and Analysis Plan (Revision 1.0)*, by Hargis + Associates, Inc., dated April 25, 2003, for the Raytheon Company, (Former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. February 11, 2011.

_____, 2011b. Results of Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, Fourth Quarter 2010, Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. February 25, 2011.

_____, 2011c. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Transmittal of Results from Initial and Confirmation Groundwater Sampling at Monitor Well MW-35, Former Raytheon Company (Formerly Hughes Aircraft Company) Site, 1901 West Malvern Avenue, Fullerton, California. March 7, 2011.

_____, 2011d. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Transmittal of Results from Initial and Confirmation Groundwater Sampling at Monitor Well MW-34, Former Raytheon Company (Formerly Hughes Aircraft Company) Site, 1901 West Malvern Avenue, Fullerton, California. March 25, 2011.

_____, 2011e. Additional Groundwater Assessment Monitor Well Construction Report (MW-34 and MW-35), Raytheon Company, 1901 West Malvern Avenue, Fullerton, California. April 4, 2011.

_____, 2011f. Additional Groundwater Assessment Work Plan Addendum No. 4. Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. April 13, 2011.

_____, 2011g. Results of Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, First Quarter 2011, Raytheon Company (former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. May 23, 2011.

_____, 2011h. Letter to W. Jeffers, DTSC, re: Amendment A, Addendum No. 1 to the *Groundwater Monitoring Work Plan and Sampling and Analysis Plan (Revision 1.0)*, by Hargis + Associates, Inc., dated April 25, 2003, for the Raytheon Company, (Former Hughes Aircraft Company), 1901 West Malvern Avenue, Fullerton, California. June 16, 2011.

_____, 2011i. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Data Submittal for Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, Second Quarter 2011, Raytheon Company (Former Hughes Aircraft Company Facility), 1901 West Malvern Avenue, Fullerton California. August 15, 2011.

_____, 2011j. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Data Submittal for Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, Third Quarter 2011, Raytheon Company (Former Hughes Aircraft Company Facility), 1901 West Malvern Avenue, Fullerton California. November 1, 2011.

_____, 2012a. Letter from C. Ross, H+A, to W. Jeffers, DTSC, re: Data Submittal for Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, Fourth Quarter 2011, Raytheon Company (Former Hughes Aircraft Company Facility), 1901 West Malvern Avenue, Fullerton, California. February 12, 2012.

_____, 2012b. Letter from S. Netto, H+A, to W. Jeffers, DTSC, re: Transmittal of Results from Initial and Confirmation Groundwater Sampling at New Off-Site Monitor Well MW-36 along Brea Creek in Buena Park, Former Raytheon Company (Formerly Hughes Aircraft Company) Site, 1901 West Malvern Avenue, Fullerton, California. March 2, 2012.

TABLE 1

GROUNDWATER MONITORING PROGRAM

WELL IDENTIFIER	HYDROGEOLOGIC ZONE	SAMPLED FEB 2012	SAMPLING FREQUENCY			
			QUARTERLY FEB, MAY, AUG, NOV	SEMIANNUAL FEBRUARY, AUGUST	ANNUAL FEBRUARY	BIENNIAL FEB (EVEN YEARS)
P-07	Perched	X			VOCs; 1,4-Dioxane	
P-09	Perched	X			VOCs; 1,4-Dioxane	
MW-35A	Other	X	VOCs; 1,4-Dioxane			
MW-17	A		PIEZOMETER - WATER LEVEL MEASUREMENT ONLY			
MW-18	A	X		VOCs; 1,4-Dioxane		
MW-19	A	X				VOCs
MW-22	A	X				VOCs; 1,4-Dioxane
MW-23	A	X				VOCs
MW-34A	A	X	VOCs; 1,4-Dioxane			
MW-35B	A	X	VOCs; 1,4-Dioxane			
MW-13	AB	X			VOCs; 1,4-Dioxane	
MW-15	AB	X		VOCs		
MW-26A	AB		PIEZOMETER - WATER LEVEL MEASUREMENT ONLY			
MW-26B	AB		PIEZOMETER - WATER LEVEL MEASUREMENT ONLY			
MW-32A$_1$	AB	X	VOCs; 1,4-Dioxane	---------->	*VOCs; 1,4-Dioxane*	
EW-01	B	X	VOCs; 1,4-Dioxane			
EW-02*	B	X	VOCs; 1,4-Dioxane			
MW-16	B	X		VOCs; 1,4-Dioxane		
MW-26C	B	X	VOCs; 1,4-Dioxane			
MW-27	B	X			VOCs; 1,4-Dioxane	
MW-28	B	X	VOCs; 1,4-Dioxane			
MW-29	B	X	VOCs; 1,4-Dioxane			
MW-30A	B	X	VOCs; 1,4-Dioxane			
MW-31	B	X	VOCs; 1,4-Dioxane			
MW-32B	B	X	VOCs; 1,4-Dioxane			
MW-33	B	X	VOCs; 1,4-Dioxane			
MW-34B	B	X	VOCs; 1,4-Dioxane			
MW-35C	B	X	VOCs; 1,4-Dioxane			
MW-36	B	X	VOCs; 1,4-Dioxane			
MW-21*	BC	X	VOCs; 1,4-Dioxane			
MW-08	BC	X	VOCs; 1,4-Dioxane			
MW-30B	BC	X	VOCs; 1,4-Dioxane			
MW-34C	BC	X	VOCs; 1,4-Dioxane			
MW-09	C	X		VOCs; 1,4-Dioxane		
MW-24	C	X			VOCs; 1,4-Dioxane	
MW-32C$_1$	C	X	VOCs; 1,4-Dioxane	---------->	*VOCs; 1,4-Dioxane*	
MW-06	D	X			VOCs	
MW-20	D	X		VOCs; 1,4-Dioxane		
MW-25	D		WATER LEVEL MEASUREMENT ONLY			

FOOTNOTES

* = Extraction well monitored monthly as part of the Groundwater Extraction and Treatment System Pilot Testing

1= New sampling frequency proposed shown in italics; current frequency shown in gray.

VOCs = Volatile organic compounds

HARGIS + ASSOCIATES, INC.

TABLE 2

WELL CONSTRUCTION SUMMARY

Well Identifier	Date Installed	Current Land Surface Elevation (feet msl)	Current Reference Point Elevation (feet msl)	Total Depth of Borehole (feet bls)	Perforated Interval (feet bls)	Screen Slot Size (inches)	Borehole Diameter (inches)	Casing Diameter (inches) (a)	Filter Pack Interval (feet bls)	Filter Pack Sand Size	Grout Filter/ Intermediate Seal Interval (feet bls) (b)	Annular Seal Interval (feet bls) (c)
Regional Groundwater System Monitor Wells, Extraction Wells and Piezometers												
MW-06	1/16/1997	185.0	184.70	190.9	149.6 - 189.6	0.010	8.5	2	145.4 - 190.9	#2/16	139.4 - 145.4 (d)	0 - 139.4
MW-08	1/22/1997	156.6	155.91	167.2	126.1 - 166.1	0.010	8.5	2	120.7 - 167.2	#2/16	115.7 - 120.7	0 - 115.7
MW-09	3/21/1997	180.5	180.10	194.2	152.2 - 192.2	0.010	8.5	2	146.2 - 194.2	#2/16	141.2 - 146.2	0 - 141.2
MW-13	4/16/1997	142.5	142.19	159.6	120.6 - 159.6	0.010	8.5	2	114.6 - 159.6	#2/16	109.6 - 114.6	0 - 109.6
MW-15	5/18/1998	145.5	144.92	174.7	120.8 - 170.8	0.010	8.5	2	115.8 - 174.8	#2/16	112.8 - 115.8	0 - 112.8
MW-16	11/20/1999	143.0	142.73	179.5	148.5 - 178.5	0.010	11.0	4	144.5 - 179.5	#2/16	134.5 - 144.5 (e)	0 - 134.5
MW-17	5/31/2000	142.8	142.66	203.7	173.1 - 193.1 (i)	0.020	10.0	4	159.7 - 193.1	#2/16	156.2 - 159.7 193.1 - 203.7 (j)	0 - 156.2
MW-18	5/24/2000	142.4	142.11	195.6	164.1 - 194.1	0.020	10.0	4	158.9 - 194.5	#2/16	154.2 - 158.9	0 - 154.2
MW-19	5/26/2000	142.7	142.72	205.5	184.9 - 204.9	0.020	10.0	4	177.0 - 205.3	#2/16	171.5 - 177.0	0 - 171.5
MW-20	6/26/2003	184.4	184.19	200.0	158.6 - 198.2	0.020	11.0	4 (f)	158.0 - 200.0	#2/12	151.0 - 158.0 (g)	0 - 151.1 (h)
MW-21	7/17/2003	143.3	141.18	238.3	212.1 - 232.1	0.010	8.0	4 (k)	205.0 - 234.5	#2/16	202.0 - 205.0 234.5 - 238 (j)	0 - 202.0 (h)
MW-22	8/13/2003	139.4	138.65	245.0	217.4 - 237.4	0.020	8.0	4 (l)	215.0 - 238.0	#2/12	208.0 - 215.0 (m)	0 - 208.0 (h)
MW-23	8/18/2003	137.8	137.33	235.6	215.2 - 235.2	0.020	8.0	4 (n)	209.4 - 235.6	#2/12	203.5 - 209.4 (m)	0 - 203.5 (h)
MW-24	9/15/2004	143.1	142.83	338.0	310.3 - 330.3	0.030	10.6	4 (o)	306 - 330	#3	301 - 306 (p)	0 - 301 (h)
MW-25	9/10/2004	143.0	142.64	805	449.4 - 479.8	0.010	8.5 (q)	2 (r)	429 - 485	#2/16	418 - 429	0 - 418 (h)
MW-26A (s)	10/1/2004	137.6	137.04	805	279 - 309	0.020	12.25 (q)	2 (t)	274 - 315	#2/12	266 - 274	0 - 266 (h)
MW-26B (s)	10/1/2004	137.6	137.05	805	339 - 379	0.020	12.25 (q)	2 (u)	334 - 387	#2/12	266 - 274	0 - 266 (h)
MW-26C (s)	10/1/2004	137.6	137.22	805	459 - 499	0.020	12.25 (q)	2 (v)	435 - 499	#2/12	387 - 435 (w)	0 - 266 (h)
MW-27	4/22/2008	137.6	137.16	550	475 - 505.2 (cc)	0.030	11.25 (q)	4 (z)	468 - 520	#3	457.5 - 468	0 - 457.5 (h)
MW-28	5/5/2008	141.4	140.77	425	335 - 375	0.040	12.25 (q)	4 (z)	325.4- 377	#8	318 - 325.4	0 - 318 (h)
MW-29	8/15/2008	142.7	142.34	265.7	200 - 240	0.020	10.0 (aa)	4 (z)	185 - 246	#2/12	176 - 185	0 - 176 (h)
MW-30A(s)	11/26/2008	130.2	129.44	635 (j)	524-564	0.020	14.25	3 (y)	515.9-570.5	#2/12	495.5-515.9	0-495.5 (bb)
MW-30B(s)	11/26/2008	130.2	129.39	635 (j)	596-616	0.020	14.25	3 (y)	586.8-625	#2/12	586.8-570.5	0-495.5 (bb)
MW-31	10/2/2009	120.3	119.60	1,100 (jj)	946-996	0.020	13	6(kk)	922-1,006	#2/12	904-922	0-904
MW-32A(s)	12/10/2009	93.4	92.88	1,153 (gg)	890-905	0.020	18.5	4(dd)	880-910	#2/12	832-880	0-832
MW-32B(s)	12/10/2009	93.4	92.89	1,153 (gg)	969-999	0.020	18.5	4(dd)	960-1,004.5	#2/12	910-960	0-832
MW-32C(s)	12/10/2009	93.4	92.88	1,153 (gg)	1,070-1,090	0.020	18.5	4(dd)	1,054-1,100	#2/12	1,004.5-1,054	0-832
MW-33	7/2/2010	83.8	83.19	1,080 (hh)	980-1,020	0.020	11	4(dd)	970-1,025	#2/12	924-970	0-924 (ii)
MW-34A	2/3/2011	154.0	153.25	290	220 - 280	0.020	12.25	4(dd)	211 - 290	#2/12	175 - 211	0 - 175
MW-34B	2/1/2011	153.9	153.11	540	486 - 536	0.020	12.25	4(dd)	475 - 540	#2/12	449 - 475	0 - 449
MW-34C	1/19/2011	154.1	153.29	709 (ll)	556 - 576	0.020	12.25	4(dd)	551 - 582	#2/12	530 - 551	0 - 530
MW-35A	12/20/2010	94.3	93.57	1,101	420 - 470	0.020	18	4(dd)	401 - 482	#2/12	376 - 401	0 - 376
MW-35B	12/20/2010	94.3	93.56	1,101	745 - 805	0.020	18	4(dd)	725 - 816	#2/12	482 - 725	0 - 376
MW-35C	12/20/2010	94.3	93.55	1101 (ll)	990 - 1,040	0.020	12.25	4(dd)	980 - 1048	#2/12	816 - 980	0 - 376
MW-36	1/3/2012	87.19	86.65	1030 (mm)	934 - 954 974 - 994	0.020	12.25	4(dd)	914 - 1003	#2/12	95 -853 (oo), 853 - 914 (pp)	0 - 95 (qq)
EW-01	5/16/2005	143.3	141.07	195	138.1-188.1	0.020	7.6	4 (x)	134.1-195	#2/12	129-134.1 (m)	0-129 (h)
EW-02	10/20/2009	136.0	132.97	473 (ee)	410-460	0.030	17.0	8 (ff)	400-465	#3	384-400	0-384
Perched Zone Piezometers												
P-07	6/6/1997	142.7	142.31	116.8	107.7 - 117.7	0.010	8.5	2	104.7 - 117.7	#2/16	101.7 - 104.7	0 - 101.7
P-09	6/30/2003	184.3	183.86	130.0	109.6 - 129.6	0.010	11.0	4	114.0 - 130.0	#2/16	101.0 - 108.0 (g)	0 - 101.0 (h)

NOTE: Refer to page 2 of this table for footnotes.

TABLE 2

WELL CONSTRUCTION SUMMARY

FOOTNOTES

msl = Mean sea level, City of Fullerton datum
bls = Below current land surface (October 2004)
(a) = Schedule 40 polyvinyl chloride (PVC) screen and casing, unless otherwise indicated
(b) = Medium bentonite chip seal, unless otherwise indicated
(c) = Bentonite grout annular seal unless otherwise indicated, completed at surface with vault set in concrete
(d) = No. 60 silica sand
(e) = Includes 2.0 feet of No. 60 silica sand placed above filter pack
(f) = Schedule 80 polyvinyl chloride screen and casing
(g) = Includes 2.5 to 3.0 feet of No. 60 silica sand placed above bentonite chip seal
(h) = Cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(i) = Well plug, approximately 0.5-foot length, set at bottom of perforated interval
(j) = Bottom of borehole backfilled with bentonite chips
(k) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 122.0 - 212.1 feet bls; Schedule 40 mild steel casing 0 - 122.0 feet bls
(l) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 112.4 - 217.4 feet bls; Schedule 40 mild steel casing 0 - 112.4 feet bls
(m) = 1/4-inch coated bentonite pellets
(n) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 110.1 - 215.2 feet bls; Schedule 40 mild steel casing 0 - 110.1 feet bls
(o) = Mild steel wire wrap screen and Schedule 40 mild steel well casing
(p) = Includes 1 to 2 feet of #2/16 sand placed above bentonite chip seal
(q) = Below filter pack, diameter of the original pilot borehole is 5 to 6.25 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(r) = Stainless steel wire wrap screen, Schedule 10 stainless steel casing 429.4 - 449.4 feet bls, Schedule 80 polyvinylchloride casing 429.0 - 429.4 feet bls, Schedule 40 mild steel casing 0 - 429.0 feet bls
(s) = Nested wells MW-26A, MW-26B, MW-26C, and MW-32A, MW-32B, MW-32C are constructed with three separate well casings in a single borehole; nested well MW-30A and MW-30B is constructed with two separate casings in a single borehole.
(t) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 259 - 279 feet bls and 0 - 19 feet bls; Schedule 40 mild steel casing 19 - 259 feet bls
(u) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 319 - 339 feet bls; Schedule 40 mild steel casing 0 - 319 feet bls
(v) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 439 - 459 feet bls; Schedule 40 mild steel casing 0 - 439 feet bls
(w) = #8 granular bentonite with exception of heavy mud/formational caving filling annular interval from 417 to 428 feet bls
(x) = Stainless steel wire wrap screen; Schedule 10 stainless steel casing 118.1-138.1 feet bls; Schedule 40 mild steel casing 0-118.1 feet bls
(y) = Schedule 40 Stainless steel endcaps; Schedule 10 stainless steel casing; Stainless steel wire wrap screen
(z) = Schedule 80 PVC blank and screen casing
(aa) = Below filter pack, diameter of the original pilot borehole is 8 inches to total depth of boring. Lower borehole backfilled with cement/bentonite grout, Type I/II Portland, less than 5% bentonite
(bb) = Neat cement
(cc) = Depth of screen interval adjusted to account for loss at bottom of casing due to breakage in casing wall. Original casing (515 ft bls) was sealed at 505.2 ft bls
(dd) = Schedule 40 Stainless steel endcaps; Schedule 80 polyvinyl chloride casing; Stainless steel wire wrap screen
(ee) = Pilot borehole drilled to a total depth of 493 feet bls and backfilled with 5% bentonite-cement grout seal to 465 feet bls
(ff) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 2.5-foot stainless steel sump
(gg) = Pilot borehole drilled to a total depth of 1,153 feet bls and backfilled with 5% bentonite-cement grout seal to 1,100 feet bls
(hh) = Pilot borehole drilled to a total depth of 1,080 feet bls and backfilled with 5% bentonite-cement grout seal to 1,025 feet bls
(ii) = Annular seal interval is composed of cement grout with approximately 5% bentonite from 720 to 924 feet bls and bentonite grout from near land surface to 720 feet bls
(jj) = Pilot borehole drilled to a total depth of 1,100 feet bls and backfilled with 5% bentonite-cement grout seal to 1,006 feet bls
(kk) = Schedule 40 Stainless steel endcaps; Schedule 40 stainless steel casing; Stainless steel wire wrap screen; 5-foot stainless steel sump
(ll) = Bottom of borehole backfilled with approximately 5% bentonite-cement grout
(mm) = Bottom of borehole backfilled with bentonite pellets
(oo) = High solids bentonite grout
(pp) = Bentonite chips
(qq) = Portland cement with approximately 5% bentonite

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells					
MW-06	01/27/97	174.27	144.62	29.65	
	02/18/97	174.27	142.26	32.01	
	02/26/97	174.27	141.97	32.30	
	03/06/97	174.27	141.52	32.75	
	03/12/97	174.27	141.24	33.03	
	03/28/97	174.27	140.90	33.37	
	05/19/97	174.27	142.85	31.42	
	10/16/97	174.27	158.05	16.22	
	05/13/98	174.27	143.00	31.27	
	05/27/98	174.27	143.49	30.78	
	06/11/98	174.27	144.43	29.84	
	07/14/98	174.27	147.46	26.81	
	11/11/98	174.27	155.60	18.67	
	11/18/98	174.27	154.82	19.45	SVE, DPE-H2O
	11/18/98	174.27	154.96	19.31	SVE, DPE-H2O
	11/19/98	174.27	154.82	19.45	SVE, DPE-H2O
	11/20/98	174.27	154.17	20.10	SVE, DPE, DPE-H2O
	11/23/98	174.27	154.43	19.84	SVE, DPE-H2O
	11/23/98	174.27	154.40	19.87	SVE, DPE-H2O
	11/24/98	174.27	154.44	19.83	SVE, DPE-H2O
	12/07/98	174.27	153.08	21.19	SVE, DPE-H2O
	12/10/98	174.27	152.56	21.71	SVE, DPE, DPE-H2O
	12/11/98	174.27	152.14	22.13	SVE, DPE, DPE-H2O
	12/14/98	174.27	151.82	22.45	SVE, DPE-H2O
	12/14/98	174.27	151.72	22.55	SVE, DPE-H2O
	12/16/98	174.27	151.73	22.54	SVE, DPE, DPE-H2O
	01/06/99	174.27	150.40	23.87	SVE, DPE, DPE-H2O
	01/20/99	174.27	149.92	24.35	
	01/25/99	174.27	149.58	24.69	DPE, DPE-H2O
	01/27/99	174.27	149.71	24.56	SVE, DPE, DPE-H2O
	02/01/99	174.27	149.37	24.90	DPE, DPE-H2O
	02/10/99	174.27	148.87	25.40	SVE, DPE, DPE-H2O
	02/23/99	174.27	148.30	25.97	
	03/01/99	174.27	148.33	25.94	DPE
	03/09/99	174.27	148.39	25.88	SVE, DPE, DPE-H2O
	03/10/99	174.27	148.35	25.92	SVE, DPE, DPE-H2O
	04/07/99	174.27	147.82	26.45	SVE, DPE-H2O
	04/23/99	174.27	147.00	27.27	SVE, DPE-H2O
	06/16/99	174.27	150.62	23.65	SVE, DPE-H2O
	06/25/99	174.27	151.91	22.36	SVE, DPE-H2O
	08/30/99	174.27	164.08	10.19	DPE-H2O
	09/27/99	174.27	166.78	7.49	
	11/02/99	174.27	169.28	4.99	
	12/06/99	174.27	158.87	15.40	
	02/07/00	174.27	164.21	10.06	
	03/08/00	174.27	160.82	13.45	
	05/08/01	174.23	155.05	19.18	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-06	06/26/01	174.23	161.99	12.24	
(Cont'd)	10/24/01	188.33	DRY	--	
	01/15/02	188.33	183.41	4.92	
	03/19/02	188.33	177.86	10.47	
	04/15/02	188.33	176.83	11.50	
	11/18/02	188.33	182.81	5.52	
	05/08/03	188.33	174.07	14.26	
	06/09/03	188.33	175.45	12.88	
	09/15/03	184.7	177.09	7.61	
	10/14/03	184.7	178.31	6.39	
	12/15/03	184.7	176.24	8.46	
	03/29/04	184.7	166.60	18.10	
	06/14/04	184.7	169.41	15.29	
	09/20/04	184.70	179.48	5.22	
	11/10/04	184.70	180.65	4.05	
	12/06/04	184.70	178.73	5.97	
	03/14/05	184.70	166.99	17.71	
	06/20/05	184.70	162.59	22.11	
	09/19/05	184.70	165.10	19.60	
	12/17/05	184.70	155.90	28.80	
	03/20/06	184.70	147.23	37.47	
	05/18/06	184.70	143.25	41.45	
	06/19/06	184.70	145.48	39.22	
	09/25/06	184.70	154.15	30.55	
	10/05/06	184.70	154.47	30.23	
	12/12/06	184.70	152.28	32.42	
	03/12/07	184.70	149.91	34.79	
	06/18/07	184.70	156.19	28.51	
	09/24/07	184.70	173.50	11.20	
	12/10/07	184.70	183.15	1.55	
	03/17/08	184.70	182.08	2.62	
	06/23/08	184.70	182.92	1.78	
	09/22/08	184.70	186.55	-1.85	
	12/15/08	184.70	188.45	-3.75	
	12/19/08	184.70	188.47	-3.77	
	03/16/09	184.70	187.58	-2.88	
	03/18/09	184.70	187.51	-2.81	
	06/22/09	184.70	186.43	-1.73	
	06/26/09	184.70	186.46	-1.76	
	08/31/09	184.70	187.31	-2.61	
	09/10/09	184.70	187.42	-2.72	
	12/07/09	184.70	187.82	-3.12	
	03/01/10	184.70	184.83	-0.13	
	03/22/10	184.70	182.35	2.35	
	06/07/10	184.70	178.27	6.43	
	09/07/10	184.70	180.20	4.50	
	12/06/10	184.70	178.75	5.95	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-06 (Cont'd)	03/24/11	184.70	UTM	--	
	06/20/11	184.70	164.20	20.50	
	08/01/11	184.70	160.31	24.39	
	10/31/11	184.70	153.73	30.97	
	02/06/12	184.70	150.51	34.19	
MW-08	01/27/97	169.53	150.66	18.87	
	02/18/97	169.53	149.78	19.75	
	02/26/97	169.53	149.60	19.93	
	03/06/97	169.53	149.62	19.91	
	03/12/97	169.53	149.55	19.98	
	03/28/97	169.53	149.46	20.07	
	05/19/97	169.53	149.33	20.20	
	05/13/98	169.53	149.54	19.99	
	05/27/98	169.53	149.40	20.13	
	06/11/98	169.53	149.30	20.23	
	08/30/99	169.53	155.13	14.40	DPE-H2O
	12/06/99	169.53	159.36	10.17	3.4 inches water in vaccum
	02/07/00	169.53	159.68	9.85	
	03/08/00	169.53	159.23	10.30	
	05/09/01	164.79	157.50	7.29	
	06/26/01	164.79	157.79	7.00	
	10/24/01	164.79	161.80	2.99	
	01/15/02	164.79	162.42	2.37	
	03/19/02	164.79	161.09	3.70	
	04/15/02	158.04	153.98	4.06	
	11/18/02	158.04	156.47	1.57	
	01/17/03	158.04	152.46	5.58	
	05/08/03	158.04	149.90	8.14	
	06/09/03	158.04	150.27	7.77	
	09/15/03	NA	UTM	--	
	10/14/03	NA	UTM	--	
	12/15/03	155.91	150.19	5.72	
	03/29/04	155.91	145.40	10.51	
	06/14/04	155.91	143.68	12.23	
	09/20/04	155.91	145.45	10.46	
	10/19/04	155.91	145.74	10.17	
	11/10/04	155.91	146.04	9.87	
	12/06/04	155.91	145.71	10.20	
	03/14/05	155.91	142.32	13.59	
	06/20/05	155.91	139.61	16.30	
	09/19/05	155.91	139.77	16.14	
	12/17/05	155.91	135.10	20.81	
	03/20/06	155.91	127.02	28.89	
	05/18/06	155.91	121.53	34.38	
	06/19/06	155.91	121.31	34.60	
	09/25/06	155.91	124.38	31.53	
	10/05/06	155.91	124.56	31.35	
	12/12/06	155.91	123.83	32.08	
	03/12/07	155.91	127.24	28.67	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-08	06/18/07	155.91	132.36	23.55	
(Cont'd)	09/24/07	155.91	137.96	17.95	
	12/10/07	155.91	142.65	13.26	
	03/17/08	155.91	145.83	10.08	
	06/23/08	155.91	149.00	6.91	
	09/22/08	155.91	153.53	2.38	
	12/15/08	155.91	157.03	-1.12	
	12/19/08	155.91	157.39	-1.48	
	03/16/09	155.91	157.87	-1.96	
	03/18/09	155.91	157.92	-2.01	
	06/22/09	155.91	157.63	-1.72	
	06/26/09	155.91	157.70	-1.79	
	08/31/09	155.91	159.37	-3.46	
	09/10/09	155.91	159.45	-3.54	
	10/28/09	155.91	159.75	-3.84	
	10/30/09	155.91	159.73	-3.82	
	11/04/09	155.91	159.84	-3.93	
	12/07/09	155.91	159.17	-3.26	
	03/01/10	155.91	157.11	-1.20	
	06/07/10	155.91	152.97	2.94	
	09/07/10	155.91	151.91	4.00	
	12/06/10	155.91	152.22	3.69	
	03/24/11	155.91	146.19	9.72	
	03/25/11	155.91	145.55	10.36	
	06/20/11	155.91	141.72	14.19	
	08/01/11	155.91	139.94	15.97	
	08/05/11	155.91	139.80	16.11	
	10/31/11	155.91	136.88	19.03	
	02/06/12	155.91	136.04	19.87	
MW-09	03/25/97	166.42	137.58	28.84	
	03/28/97	166.42	137.34	29.08	
	05/19/97	166.42	138.31	28.11	
	05/13/98	166.42	139.18	27.24	
	05/27/98	166.42	139.57	26.85	
	06/11/98	166.42	140.03	26.39	
	07/14/98	166.42	142.56	23.86	
	11/11/98	166.42	150.98	15.44	
	11/18/98	166.42	150.72	15.70	SVE, DPE-H2O
	11/18/98	166.42	150.57	15.85	SVE, DPE-H2O
	11/19/98	166.42	150.63	15.79	SVE, DPE-H2O
	11/20/98	166.42	150.64	15.78	SVE, DPE, DPE-H2O
	11/23/98	166.42	150.47	15.95	SVE, DPE-H2O
	11/23/98	166.42	150.43	15.99	SVE, DPE-H2O
	11/24/98	166.42	150.45	15.97	SVE, DPE-H2O
	12/07/98	166.42	149.98	16.44	SVE, DPE-H2O
	12/10/98	166.42	149.67	16.75	SVE, DPE, DPE-H2O
	12/11/98	166.42	149.68	16.74	SVE, DPE, DPE-H2O
	12/14/98	166.42	149.18	17.24	SVE, DPE-H2O
	12/16/98	166.42	148.97	17.45	SVE, DPE, DPE-H2O
	01/06/99	166.42	147.76	18.66	SVE, DPE, DPE-H2O
	01/20/99	166.42	147.18	19.24	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-09	01/25/99	166.42	146.80	19.62	DPE, DPE-H2O
(Cont'd)	01/27/99	166.42	146.98	19.44	SVE, DPE, DPE-H2O
	02/01/99	166.42	146.85	19.57	SVE, DPE, DPE-H2O
	02/10/99	166.42	146.43	19.99	SVE, DPE, DPE-H2O
	02/23/99	166.42	145.78	20.64	
	03/01/99	166.42	145.68	20.74	DPE
	03/09/99	166.42	145.73	20.69	SVE, DPE, DPE-H2O
	03/10/99	166.42	145.70	20.72	SVE, DPE, DPE-H2O
	03/15/99	166.42	145.57	20.85	SVE, DPE, DPE-H2O
	04/07/99	166.42	145.35	21.07	SVE, DPE-H2O
	04/23/99	166.42	144.61	21.81	SVE, DPE-H2O
	06/16/99	166.42	147.11	19.31	SVE, DPE-H2O
	06/25/99	166.42	148.10	18.32	SVE, DPE-H2O
	08/30/99	166.42	156.90	9.52	DPE-H2O
	09/27/99	166.42	159.80	6.62	
	11/02/99	166.42	163.08	3.34	
	11/09/99	166.42	163.51	2.91	
	11/10/99	166.42	163.44	2.98	
	11/23/99	166.42	163.92	2.50	
	12/06/99	166.42	163.59	2.83	
	12/07/99	166.42	163.41	3.01	
	02/07/00	166.42	160.51	5.91	
	06/29/00	166.42	UTM	--	
	10/24/01	182.15	184.16	-2.01	
	01/15/02	182.15	182.12	0.03	
	03/19/02	182.15	177.57	4.58	
	04/15/02	182.15	176.29	5.86	
	11/18/02	182.28	181.80	0.48	
	01/17/03	182.28	174.44	7.84	
	05/08/03	182.28	172.56	9.72	
	06/09/03	182.28	173.57	8.71	
	09/15/03	182.28	178.03	4.25	
	09/24/03	182.28	178.46	3.82	
	10/14/03	182.28	179.10	3.18	
	12/15/03	182.28	178.00	4.28	
	03/29/04	180.10	166.90	13.20	
	06/14/04	180.10	168.36	11.74	
	09/20/04	180.10	176.29	3.81	
	10/19/04	180.10	178.00	2.10	
	11/10/04	180.10	177.75	2.35	
	12/06/04	180.10	176.64	3.46	
	03/14/05	180.10	167.00	13.10	
	06/20/05	180.10	162.13	17.97	
	09/19/05	180.10	164.58	15.52	
	12/17/05	180.10	156.29	23.81	
	03/20/06	180.10	146.90	33.20	
	05/18/06	180.10	142.77	37.33	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-09	06/19/06	180.10	144.64	35.46	
(Cont'd)	09/25/06	180.10	151.96	28.14	
	10/05/06	180.10	152.33	27.77	
	12/19/06	180.10	150.40	29.70	
	03/12/07	180.10	148.81	31.29	
	06/18/07	180.10	UTM	--	
	09/24/07	180.10	171.33	8.77	
	12/10/07	180.10	179.73	0.37	
	03/17/08	180.10	180.71	-0.61	
	06/27/08	180.10	182.20	-2.10	
	09/22/08	180.10	187.53	-7.43	
	12/15/08	180.10	DRY	--	Dry @ 190.2 ft bls
	03/16/09	180.10	DRY	--	Dry @ 190.0 ft bls
	06/23/09	180.10	187.69	-7.59	
	08/31/09	180.10	189.34	-9.24	
	12/07/09	180.10	189.35	-9.25	
	03/02/10	180.10	186.09	-5.99	
	06/07/10	180.10	180.11	-0.01	
	09/07/10	180.10	180.51	-0.41	
	12/06/10	180.10	179.83	0.27	
	03/24/11	180.10	170.04	10.06	
	06/20/11	180.10	165.04	15.06	
	08/01/11	180.10	161.84	18.26	
	11/01/11	180.10	155.13	24.97	
	02/06/12	180.10	150.19	29.91	
MW-13	05/19/97	162.92	149.06	13.86	
	05/13/98	162.92	150.56	12.36	
	05/27/98	162.92	149.67	13.25	
	06/11/98	162.92	149.63	13.29	
	11/02/99	162.92	166.86	-3.94	
	11/09/99	162.92	167.25	-4.33	
	11/10/99	162.92	167.36	-4.44	
	11/23/99	162.92	167.92	-5.00	
	12/06/99	162.92	168.35	-5.43	
	12/07/99	162.92	168.38	-5.46	
	02/07/00	162.92	167.88	-4.96	
	06/21/00	162.55	164.42	-1.87	
	07/05/00	162.55	165.68	-3.13	
	01/16/01	142.51	151.58	-9.07	
	03/19/01	142.51	149.31	-6.80	
	03/26/01	142.51	148.72	-6.21	
	04/03/01	142.51	148.30	-5.79	
	04/10/01	142.51	148.00	-5.49	
	04/17/01	142.51	147.90	-5.39	
	04/26/01	142.51	147.50	-4.99	
	05/07/01	142.51	147.14	-4.63	
	06/26/01	142.51	147.61	-5.10	
	09/10/01	142.19	151.32	-9.13	
	10/22/01	142.19	153.62	-11.43	
	10/24/01	142.19	153.68	-11.49	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-13	01/15/02	142.19	153.78	-11.59	
(Cont'd)	01/15/02	142.19	153.76	-11.57	
	03/19/02	142.19	148.86	-6.67	
	04/15/02	142.19	148.29	-6.10	
	10/31/02	142.19	154.39	-12.20	
	10/31/02	142.19	154.38	-12.19	
	11/07/02	142.19	153.97	-11.78	
	11/07/02	142.19	153.95	-11.76	
	11/18/02	142.19	153.20	-11.01	
	01/17/03	142.19	142.13	0.06	
	05/08/03	142.19	138.90	3.29	
	06/09/03	142.19	140.81	1.38	
	09/15/03	142.19	146.63	-4.44	
	10/14/03	142.19	147.73	-5.54	
	12/02/03	142.19	145.21	-3.02	
	12/15/03	142.19	143.91	-1.72	
	03/29/04	142.19	132.94	9.25	
	06/14/04	142.19	132.76	9.43	
	09/20/04	142.19	138.99	3.20	
	10/19/04	142.19	140.31	1.88	
	11/10/04	142.19	138.99	2.13	
	12/06/04	142.19	139.08	3.11	
	03/14/05	142.19	127.95	14.24	
	06/20/05	142.19	129.49	12.70	
	09/19/05	142.19	132.44	9.75	
	12/17/05	142.19	116.10	26.09	
	03/20/06	142.19	112.58	29.61	
	06/19/06	142.19	108.37	33.82	
	09/25/06	142.19	115.66	26.53	
	12/12/06	142.19	112.59	29.60	
	03/12/07	142.19	117.07	25.12	
	06/18/07	142.19	126.05	16.14	
	09/24/07	142.19	137.98	4.21	
	12/10/07	142.19	146.51	-4.32	
	03/17/08	142.19	147.13	-4.94	
	06/23/08	142.19	149.38	-7.19	
	09/22/08	142.19	153.18	-10.99	
	12/15/08	142.19	156.91	-14.72	
	03/16/09	142.19	155.95	-13.76	
	06/22/09	142.19	152.05	-9.86	
	08/31/09	142.19	154.42	-12.23	
	12/07/09	142.19	153.32	-11.13	
	03/01/10	142.19	148.41	-6.22	
	06/07/10	142.19	141.51	0.68	
	09/07/10	142.19	142.67	-0.48	
	12/06/10	142.19	144.25	-2.06	
	03/24/11	142.19	132.38	9.81	
	06/20/11	142.19	125.39	16.80	
	08/01/11	142.19	127.15	15.04	
	10/31/11	142.19	124.07	18.12	
	02/06/12	142.19	117.20	24.99	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-15	05/27/98	159.20	153.83	5.37	
	06/11/98	159.20	153.16	6.04	
	11/09/99	159.20	165.47	-6.27	
	12/06/99	159.20	166.56	-7.36	
	02/07/00	159.20	167.68	-8.48	
	06/21/00	159.2	164.57	-5.37	
	07/05/00	159.2	164.94	-5.74	
	01/16/01	154.35	166.25	-11.90	
	03/19/01	154.35	165.42	-11.07	
	05/08/01	154.35	164.16	-9.81	
	06/26/01	154.35	164.09	-9.74	
	09/10/01	154.35	166.43	-12.08	
	10/24/01	154.35	168.27	-13.92	
	01/15/02	154.35	169.03	-14.68	
	03/19/02	154.35	167.33	-12.98	
	04/15/02	146.14	158.58	-12.44	
	11/18/02	146.14	160.67	-14.53	
	01/17/03	146.14	155.87	-9.73	
	05/08/03	NA	UTM	--	
	06/09/03	144.99	149.92	-4.93	
	09/15/03	144.99	152.72	-7.73	
	09/23/03	144.99	152.99	-8.00	
	10/14/03	144.99	153.64	-8.65	
	12/15/03	144.99	152.50	-7.51	
	03/29/04	144.99	146.10	-1.11	
	06/14/04	144.99	142.94	2.05	
	09/20/04	144.99	143.78	1.21	
	10/19/04	144.99	143.74	1.25	
	11/10/04	144.99	144.01	0.98	
	12/06/04	144.99	143.95	1.04	
	03/14/05	144.99	140.02	4.97	
	06/20/05	144.99	137.35	7.64	
	09/19/05	144.99	137.57	7.42	
	12/17/05	144.99	134.72	10.27	
	03/20/06	144.99	124.34	20.65	
	05/18/06	144.99	117.13	27.86	
	06/19/06	144.99	115.44	29.55	
	09/25/06	144.99	116.80	28.19	
	10/05/06	144.99	117.09	27.90	
	12/12/06	144.99	117.21	27.78	
	03/12/07	144.99	118.76	26.23	
	06/18/07	144.99	123.16	21.83	
	09/24/07	144.99	132.92	12.07	
	12/10/07	144.99	141.07	3.92	
	03/17/08	144.99	149.72	-4.73	
	06/23/08	144.99	154.59	-9.60	
	09/22/08	144.99	160.27	-15.28	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-15	12/15/08	144.92	164.12	-19.20	
(Cont'd)	12/19/08	144.92	164.61	-19.69	
	03/16/09	144.92	164.01	-19.09	
	03/18/09	144.92	165.33	-20.41	
	06/22/09	144.92	161.11	-16.19	
	06/26/09	144.92	161.17	-16.25	
	08/31/09	144.92	162.89	-17.97	
	09/10/09	144.92	163.05	-18.13	
	10/28/09	144.92	162.60	-17.68	
	10/30/09	144.92	162.66	-17.74	
	11/04/09	144.92	162.38	-17.46	
	12/07/09	144.92	161.33	-16.41	
	03/01/10	144.92	159.25	-14.33	
	06/07/10	144.92	154.43	-9.51	
	09/07/10	144.92	152.71	-7.79	
	12/06/10	144.92	153.09	-8.17	
	03/24/11	144.92	147.05	-2.13	
	03/25/11	144.92	146.74	-1.82	
	06/20/11	144.92	142.83	2.09	
	08/01/11	144.92	141.00	3.92	
	08/05/11	144.92	140.61	4.31	
	10/31/11	144.92	138.25	6.67	
	02/06/12	144.92	133.38	11.54	
MW-16	11/09/99	164.08	170.71	-6.63	
	11/09/99	164.08	170.84	-6.76	
	11/10/99	164.08	171.00	-6.92	
	11/10/99	164.08	174.01	-9.93	
	11/22/99	164.08	163.94	0.14	
	11/23/99	164.08	164.17	-0.09	
	12/06/99	164.08	164.36	-0.28	
	12/07/99	164.08	164.32	-0.24	
	12/07/99	164.08	172.50	-8.42	
	02/07/00	164.08	162.75	1.33	
	02/18/00	164.08	162.36	1.72	
	06/21/00	164.08	160.66	3.42	
	07/05/00	164.08	161.62	2.46	
	07/06/00	164.08	161.62	2.46	
	01/16/01	146.18	148.73	-2.55	
	03/19/01	146.18	146.47	-0.29	
	03/26/01	146.18	146.07	0.11	
	04/03/01	146.18	145.80	0.38	
	04/10/01	146.18	145.50	0.68	
	04/17/01	146.18	145.20	0.98	
	04/26/01	146.18	145.50	0.68	
	05/10/01	146.18	144.70	1.48	
	06/26/01	146.18	149.09	-2.91	
	10/24/01	146.26	151.72	-5.46	
	01/15/02	142.73	148.36	-5.63	
	03/19/02	142.73	145.53	-2.80	
	04/15/02	142.73	145.24	-2.51	
	10/31/02	142.73	149.95	-7.22	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-16	11/18/02	142.73	147.11	-4.38	
(Cont'd)	01/17/03	142.73	133.43	9.30	
	01/17/03	142.73	133.44	9.29	
	05/08/03	142.73	142.24	0.49	
	06/09/03	142.73	145.96	-3.23	
	09/15/03	142.73	150.25	-7.52	
	09/19/03	142.73	150.32	-7.59	
	09/24/03	142.73	150.37	-7.64	
	09/25/03	142.73	150.26	-7.53	
	10/14/03	142.73	149.51	-6.78	
	12/02/03	142.73	143.81	-1.08	
	12/03/03	142.73	143.52	-0.79	
	12/15/03	142.73	141.50	1.23	
	03/29/04	142.73	129.17	13.56	
	04/29/04	142.73	128.89	13.84	
	06/14/04	142.73	134.28	8.45	
	09/20/04	142.73	146.47	-3.74	
	10/19/04	142.73	146.25	-3.52	
	11/10/04	142.73	144.36	-1.63	
	12/06/04	142.73	141.31	1.42	
	03/14/05	142.73	127.49	15.24	
	06/20/05	142.73	132.93	9.80	
	07/13/05	142.73	130.66	12.07	
	09/19/05	142.73	140.08	2.65	
	09/21/05	142.73	140.27	2.46	
	12/17/05	142.73	119.28	23.45	
	03/20/06	142.73	112.82	29.91	
	06/19/06	142.73	108.54	34.19	
	09/25/06	142.73	118.38	24.35	
	10/05/06	142.73	118.60	24.13	
	12/11/06	142.73	116.26	26.47	
	03/12/07	142.73	122.91	19.82	
	06/18/07	142.73	133.17	9.56	
	09/24/07	142.73	153.25	-10.52	
	12/10/07	142.73	150.10	-7.37	
	12/20/07	142.73	150.49	-7.76	
	03/17/08	142.73	150.44	-7.71	
	06/23/08	142.73	152.46	-9.73	
	07/11/08	142.73	153.82	-11.09	
	07/14/08	142.73	153.73	-11.00	
	07/15/08	142.73	153.81	-11.08	
	07/30/08	142.73	155.17	-12.44	
	09/22/08	142.73	159.91	-17.18	
	10/22/08	142.73	162.00	-19.27	
	12/15/08	142.73	164.63	-21.90	
	12/19/08	142.73	164.07	-21.34	
	02/25/09	142.73	159.44	-16.71	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-16	03/16/09	142.73	159.56	-16.83	
(Cont'd)	03/18/09	142.73	160.35	-17.62	
	04/29/09	142.73	154.63	-11.90	
	04/29/09	142.73	154.68	-11.95	
	05/27/09	142.73	156.56	-13.83	
	06/22/09	142.73	157.90	-15.17	
	06/26/09	142.73	158.59	-15.86	
	08/31/09	142.73	160.61	-17.88	
	09/10/09	142.73	161.06	-18.33	
	10/23/09	142.73	158.83	-16.10	
	10/30/09	142.73	157.98	-15.25	
	11/04/09	142.73	157.58	-14.85	
	12/07/09	142.73	156.03	-13.30	
	01/19/10	142.73	154.70	-11.97	
	03/01/10	142.73	149.08	-6.35	
	06/07/10	142.73	144.31	-1.58	
	09/07/10	142.73	151.63	-8.90	
	12/06/10	142.73	150.27	-7.54	
	03/24/11	142.73	134.07	8.66	
	06/20/11	142.73	129.99	12.74	
	08/01/11	142.73	130.92	11.81	
	08/05/11	142.73	131.23	11.50	
	10/31/11	142.73	128.83	13.90	
	02/06/12	142.73	121.44	21.29	
MW-17	06/21/00	158.77	163.65	-4.88	
	07/05/00	158.77	166.30	-7.53	
	01/16/01	145.28	154.14	-8.86	
	03/19/01	145.28	148.20	-2.92	
	03/26/01	145.28	147.96	-2.68	
	04/03/01	145.28	148.00	-2.72	
	04/10/01	145.28	147.80	-2.52	
	04/17/01	145.28	147.70	-2.42	
	04/26/01	145.28	147.90	-2.62	
	05/08/01	145.28	148.34	-3.06	
	06/26/01	145.28	152.88	-7.60	
	09/10/01	142.49	159.11	-16.62	
	10/22/01	142.49	162.45	-19.96	
	10/24/01	142.49	162.52	-20.03	
	01/15/02	142.49	150.30	-7.81	
	03/19/02	142.49	146.31	-3.82	
	04/15/02	142.49	146.92	-4.43	
	11/18/02	142.49	145.21	-2.72	
	05/08/03	142.49	142.77	-0.28	
	06/09/03	142.49	146.12	-3.63	
	09/15/03	142.66	151.61	-8.95	
	10/14/03	142.66	152.31	-9.65	
	12/02/03	142.66	141.10	1.56	
	12/15/03	142.66	138.77	3.89	
	03/29/04	142.66	128.10	14.56	
	06/14/04	142.66	135.02	7.64	
	09/20/04	142.66	145.34	-2.68	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-17	10/19/04	142.66	144.94	-2.28	
(Cont'd)	11/10/04	142.66	142.71	-0.05	
	12/06/04	142.66	138.67	3.99	
	03/14/05	142.66	125.49	17.17	
	06/20/05	142.66	132.60	10.06	
	09/19/05	142.66	137.49	5.17	
	12/17/05	142.66	116.68	25.98	
	03/20/06	142.66	113.20	29.46	
	06/19/06	142.66	108.97	33.69	
	09/25/06	142.66	116.20	26.46	
	12/12/06	142.66	113.17	29.49	
	03/12/07	142.66	117.46	25.20	
	06/18/07	142.66	129.43	13.23	
	09/24/07	142.66	149.29	-6.63	
	12/10/07	142.66	154.89	-12.23	
	03/17/08	142.66	149.19	-6.53	
	06/23/08	142.66	154.35	-11.69	
	09/22/08	142.66	162.79	-20.13	
	12/15/08	142.66	162.89	-20.23	
	03/16/09	142.66	151.39	-8.73	
	06/22/09	142.66	152.09	-9.43	
	08/31/09	142.66	156.35	-13.69	
	12/07/09	142.66	150.10	-7.44	
	03/01/10	142.66	145.46	-2.80	
	06/07/10	142.66	139.06	3.60	
	09/08/10	142.66	145.75	-3.09	
	12/06/10	142.66	143.89	-1.23	
	03/24/11	142.66	128.87	13.79	
	06/20/11	142.66	125.84	16.82	
	08/01/11	142.66	127.11	15.55	
	10/31/11	142.66	124.34	18.32	
	02/06/12	142.66	117.62	25.04	
MW-18	06/15/00	161.51	166.05	-4.54	
	06/21/00	161.51	167.18	-5.67	
	07/05/00	161.51	169.55	-8.04	
	01/16/01	144.03	153.83	-9.80	
	03/19/01	144.03	147.97	-3.94	
	03/26/01	144.03	147.72	-3.69	
	04/03/01	144.03	147.70	-3.67	
	04/10/01	144.03	147.40	-3.37	
	04/17/01	144.03	147.30	-3.27	
	04/26/01	144.03	147.60	-3.57	
	05/07/01	144.03	148.07	-4.04	
	06/26/01	144.03	152.56	-8.53	
	09/10/01	142.11	159.63	-17.52	
	10/22/01	142.11	162.83	-20.72	
	10/24/01	142.11	162.88	-20.77	
	01/15/02	142.11	150.89	-8.78	
	01/15/02	142.11	150.84	-8.73	
	03/19/02	142.11	146.87	-4.76	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-18	04/15/02	142.11	147.46	-5.35	
(Cont'd)	10/31/02	142.11	151.28	-9.17	
	10/31/02	142.11	151.24	-9.13	
	11/07/02	142.11	149.20	-7.09	
	11/07/02	142.11	149.17	-7.06	
	11/18/02	142.11	145.66	-3.55	
	01/17/03	142.11	131.07	11.04	
	05/08/03	142.11	143.19	-1.08	
	06/09/03	142.11	146.59	-4.48	
	09/15/03	142.11	151.93	-9.82	
	10/14/03	142.11	152.61	-10.50	
	12/02/03	142.11	141.26	0.85	
	12/03/03	142.11	141.04	1.07	
	12/15/03	142.11	138.95	3.16	
	03/29/04	142.11	128.16	13.95	
	04/29/04	142.11	128.60	13.51	
	06/14/04	142.11	135.03	7.08	
	09/20/04	142.11	145.41	-3.30	
	10/19/04	142.11	145.00	-2.89	
	11/10/04	142.11	142.82	-0.71	
	12/06/04	142.11	138.22	3.89	
	03/14/05	142.11	125.47	16.64	
	06/20/05	142.11	131.58	10.53	
	07/13/05	142.11	128.64	13.47	
	09/19/05	142.11	137.61	4.50	
	09/21/05	142.11	137.79	4.32	
	12/17/05	142.11	116.61	25.50	
	03/20/06	142.11	112.95	29.16	
	05/18/06	142.11	106.02	36.09	
	06/19/06	142.11	108.73	33.38	
	09/25/06	142.11	116.04	26.07	
	12/12/06	142.11	112.97	29.14	
	03/12/07	142.11	117.39	24.72	
	06/18/07	142.11	129.43	12.68	
	09/24/07	142.11	149.48	-7.37	
	12/10/07	142.11	155.01	-12.90	
	03/17/08	142.11	149.46	-7.35	
	06/23/08	142.11	154.58	-12.47	
	09/22/08	142.11	162.96	-20.85	
	12/15/08	142.11	163.14	-21.03	
	03/16/09	142.11	151.76	-9.65	
	06/22/09	142.11	152.37	-10.26	
	08/31/09	142.11	156.67	-14.56	
	12/07/09	142.11	150.40	-8.29	
	03/01/10	142.11	145.68	-3.57	
	06/07/10	142.11	139.22	2.89	
	09/07/10	142.11	145.91	-3.80	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-18	12/06/10	142.11	144.09	-1.98	
(Cont'd)	03/24/11	142.11	128.91	13.20	
	06/20/11	142.11	125.82	16.29	
	08/01/11	142.11	127.20	14.91	
	10/31/11	142.11	124.44	17.67	
	02/06/12	142.11	117.59	24.52	
MW-19	06/14/00	156.43	160.16	-3.73	
	06/21/00	156.43	161.53	-5.10	
	07/05/00	156.43	164.21	-7.78	
	01/16/01	145.28	UTM	--	
	03/19/01	145.28	UTM	--	
	05/08/01	145.28	148.50	-3.22	
	06/26/01	145.28	153.11	-7.83	
	09/10/01	142.55	159.50	-16.95	
	10/22/01	142.55	162.99	-20.44	
	10/24/01	142.55	162.98	-20.43	
	01/15/02	142.55	150.68	-8.13	
	03/19/02	142.55	146.60	-4.05	
	04/15/02	142.55	147.21	-4.66	
	11/18/02	142.55	145.68	-3.13	
	05/08/03	142.55	143.03	-0.48	
	06/09/03	142.55	146.39	-3.84	
	09/15/03	142.55	151.75	-9.20	
	09/19/03	142.55	151.85	-9.30	
	10/14/03	142.55	152.45	-9.90	
	12/02/03	142.55	141.40	1.15	
	12/15/03	142.72	139.07	3.65	
	03/29/04	142.72	128.10	14.62	
	06/14/04	142.72	135.09	7.63	
	09/20/04	142.72	145.55	-2.83	
	10/19/04	142.72	145.20	-2.48	
	11/10/04	142.72	142.94	-0.22	
	12/06/04	142.72	138.87	3.85	
	03/14/05	142.72	125.50	17.22	
	06/20/05	142.72	131.63	11.09	
	09/19/05	142.72	137.49	5.23	
	12/17/05	142.72	116.59	26.13	
	03/20/06	142.72	112.71	30.01	
	06/19/06	142.72	108.71	34.01	
	09/25/06	142.72	116.10	26.62	
	12/12/06	142.72	113.00	29.72	
	03/12/07	142.72	117.20	25.52	
	06/18/07	142.72	129.32	13.40	
	09/24/07	142.72	149.46	-6.74	
	12/10/07	142.72	155.15	-12.43	
	03/17/08	142.72	149.35	-6.63	
	06/23/08	142.72	154.47	-11.75	
	09/22/08	142.72	163.03	-20.31	
	12/15/08	142.72	163.18	-20.46	
	03/16/09	142.72	151.68	-8.96	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-19	06/22/09	142.72	152.41	-9.69	
(Cont'd)	08/31/09	142.72	156.69	-13.97	
	12/07/09	142.72	150.42	-7.70	
	03/01/10	142.72	145.73	-3.01	
	06/07/10	142.72	139.20	3.52	
	09/08/10	142.72	145.97	-3.25	
	12/06/10	142.72	144.11	-1.39	
	03/24/11	142.72	128.79	13.93	
	06/20/11	142.72	125.82	16.90	
	08/01/11	142.72	127.06	15.66	
	10/31/11	142.72	124.19	18.53	
	02/06/12	142.72	117.41	25.31	
MW-20	06/30/03	184.19	168.22	15.97	
	09/15/03	184.19	171.58	12.61	
	09/23/03	184.19	171.95	12.24	
	10/08/03	184.19	172.43	11.76	
	10/14/03	184.19	172.83	11.36	
	12/15/03	184.19	172.34	11.85	
	03/29/04	184.19	163.81	20.38	
	06/14/04	184.19	165.21	18.98	
	09/20/04	184.19	174.15	10.04	
	11/10/04	184.19	176.60	7.59	
	12/06/04	184.19	175.49	8.70	
	03/14/05	184.19	165.05	19.14	
	06/20/05	184.19	158.60	25.59	
	09/19/05	184.19	160.38	23.81	
	12/17/05	184.19	153.77	30.42	
	03/20/06	184.19	144.52	39.67	
	06/19/06	184.19	142.00	42.19	
	09/25/06	184.19	149.33	34.86	
	12/12/06	184.19	148.77	35.42	
	03/12/07	184.19	146.04	38.15	
	06/18/07	184.19	150.00	34.19	
	09/24/07	184.19	166.46	17.73	
	12/10/07	184.19	176.76	7.43	
	03/17/08	184.19	177.00	7.19	
	06/23/08	184.19	176.53	7.66	
	09/22/08	184.19	182.60	1.59	
	12/15/08	184.19	185.69	-1.50	
	03/16/09	184.19	184.62	-0.43	
	06/22/09	184.19	182.07	2.12	
	08/31/09	184.19	183.50	0.69	
	12/07/09	184.19	184.31	-0.12	
	03/01/10	184.19	180.87	3.32	
	06/07/10	184.19	174.32	9.87	
	09/07/10	184.19	175.17	9.02	
	12/06/10	184.19	174.53	9.66	
	03/24/11	184.19	165.49	18.70	
	06/20/11	184.19	160.68	23.51	
	08/01/11	184.19	156.84	27.35	
	10/31/11	184.19	149.75	34.44	
	02/06/12	184.19	145.82	38.37	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-21	09/15/03	142.68	146.34	-3.66	
	09/19/03	142.68	146.53	-3.85	
	09/23/03	142.68	146.75	-4.07	
	09/25/03	142.68	147.05	-4.37	
	10/08/03	142.68	147.31	-4.63	
	10/14/03	142.68	147.72	-5.04	
	12/02/03	142.68	142.95	-0.27	
	12/03/03	142.68	142.65	0.03	
	12/15/03	142.68	141.34	1.34	
	03/29/04	142.68	130.83	11.85	
	04/29/04	142.68	129.48	13.20	
	06/14/04	142.68	131.21	11.47	
	09/20/04	142.68	138.15	4.53	
	10/19/04	142.68	138.75	3.93	
	11/10/04	142.68	138.82	3.86	
	12/06/04	142.68	137.64	5.04	
	03/14/05	142.68	128.64	14.04	
	06/20/05	142.68	127.83	14.85	
	07/13/05	142.68	126.82	15.86	
	09/19/05	142.68	131.31	11.37	
	09/21/05	142.68	131.51	11.17	
	12/17/05	142.68	120.26	22.42	
	03/20/06	142.68	113.24	29.44	
	06/19/06	142.68	107.60	35.08	
	09/25/06	142.68	111.36	31.32	
	10/05/06	142.68	111.45	31.23	
	12/11/06	142.68	110.57	32.11	
	03/12/07	142.68	114.18	28.50	
	06/18/07	142.68	120.04	22.64	
	09/24/07	142.68	135.85	6.83	
	12/10/07	142.68	146.37	-3.69	
	01/21/08	140.30	148.51	-8.2	
	03/17/08	140.30	146.90	-6.6	
	05/27/08	141.23	148.71	-7.48	
	06/23/08	141.23	150.40	-9.17	
	07/09/08	141.18	160.02	-18.84	Pilot GETS
	07/11/08	141.18	153.31	-12.13	
	07/14/08	141.18	152.84	-11.66	
	07/15/08	141.18	161.98	-20.8	Pilot GETS
	07/30/08	141.18	162.93	-21.75	Pilot GETS
	08/14/08	141.18	165.94	-24.76	Pilot GETS
	08/25/08	141.18	167.47	-26.29	Pilot GETS
	09/22/08	141.18	170.65	-29.47	Pilot GETS
	10/22/08	141.18	172.35	-31.17	
	12/15/08	141.18	168.21	-27.03	
	12/19/08	141.18	166.50	-25.32	
	01/07/09	141.18	161.36	-20.18	
	02/25/09	141.18	165.74	-24.56	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-21	03/16/09	141.18	166.33	-25.15	Pilot GETS
(Cont'd)	03/18/09	141.18	164.52	-23.34	Pilot GETS
	04/29/09	141.18	156.91	-15.73	
	04/29/09	141.18	162.95	-21.77	Pilot GETS
	05/27/09	141.18	162.71	-21.53	Pilot GETS
	06/22/09	141.18	163.25	-22.07	Pilot GETS
	06/26/09	141.18	163.49	-22.31	Pilot GETS
	06/29/09	141.18	163.93	-22.75	Pilot GETS
	07/22/09	141.18	166.47	-25.29	Pilot GETS
	08/14/09	141.18	170.24	-29.06	Pilot GETS
	08/31/09	141.18	166.80	-25.62	Pilot GETS
	09/10/09	141.18	168.29	-27.11	Pilot GETS
	09/11/09	141.18	167.13	-25.95	Pilot GETS
	10/08/09	141.18	166.65	-25.47	Pilot GETS
	10/23/09	141.18	155.98	-14.80	Pilot GETS
	10/30/09	141.18	154.90	-13.72	
	11/04/09	141.18	154.08	-12.90	
	12/07/09	141.18	150.92	-9.74	
	12/09/09	141.18	155.00	-13.82	
	03/01/10	141.18	144.78	-3.60	
	06/07/10	141.18	137.88	3.30	
	09/07/10	141.18	139.87	1.31	
	12/06/10	141.18	141.05	0.13	
	03/24/11	141.18	129.59	11.59	
	06/20/11	141.18	124.57	16.61	
	08/01/11	141.18	123.72	17.46	
	08/05/11	141.18	123.64	17.54	
	10/14/11	141.18	120.69	20.49	
	10/31/11	141.18	120.89	20.29	
	12/08/11	141.18	131.77	9.41	Pilot GETS
	01/05/12	141.18	133.06	8.12	Pilot GETS
	01/06/12	141.18	133.19	7.99	Pilot GETS
	01/25/12	141.18	132.89	8.29	Pilot GETS
	02/06/12	141.18	132.30	8.88	Pilot GETS
	02/08/12	141.18	132.93	8.25	Pilot GETS
	03/09/12	141.18	131.41	9.77	Pilot GETS
MW-22	09/15/03	138.65	147.40	-8.75	
	09/15/03	138.65	148.23	-9.58	
	09/19/03	138.65	147.65	-9.00	
	09/23/03	138.65	147.77	-9.12	
	09/25/03	138.65	147.92	-9.27	
	10/08/03	138.65	148.08	-9.43	
	10/14/03	138.65	148.24	-9.59	
	12/02/03	138.65	136.80	1.85	
	12/03/03	138.65	136.56	2.09	
	12/15/03	138.65	134.47	4.18	
	03/29/04	138.65	123.84	14.81	
	04/29/04	138.65	124.38	14.27	
	06/14/04	138.65	130.80	7.85	
	09/20/04	138.65	141.03	-2.38	
	10/19/04	138.65	140.81	-2.16	
	11/10/04	138.65	138.43	0.22	
	12/06/04	138.65	134.38	4.27	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-22	03/14/05	138.65	121.17	17.48	
(Cont'd)	06/20/05	138.65	127.33	11.32	
	07/13/05	138.65	124.37	14.28	
	09/19/05	138.65	133.55	5.10	
	09/21/05	138.65	133.66	4.99	
	12/17/05	138.65	112.37	26.28	
	03/20/06	138.65	109.01	29.64	
	06/19/06	138.65	104.82	33.83	
	09/25/06	138.65	112.02	26.63	
	12/12/06	138.65	108.93	29.72	
	03/12/07	138.65	113.44	25.21	
	06/18/07	138.65	125.49	13.16	
	09/24/07	138.65	145.19	-6.54	
	12/10/07	138.65	150.68	-12.03	
	12/20/07	138.65	150.54	-11.89	
	01/21/08	138.65	148.35	-9.70	
	03/17/08	138.65	145.11	-6.46	
	04/21/08	138.65	145.53	-6.88	
	05/27/08	138.65	148.00	-9.35	
	06/23/08	138.65	150.29	-11.64	
	09/22/08	138.65	158.69	-20.04	
	12/15/08	138.65	158.75	-20.10	
	03/16/09	138.65	147.07	-8.42	
	06/22/09	138.65	147.84	-9.19	
	08/31/09	138.65	152.10	-13.45	
	12/07/09	138.65	145.84	-7.19	
	03/01/10	138.65	141.12	-2.47	
	06/07/10	138.65	134.83	3.82	
	09/07/10	138.65	141.49	-2.84	
	12/06/10	138.65	139.63	-0.98	
	03/25/11	138.65	124.60	14.05	
	06/20/11	138.65	121.60	17.05	
	08/01/11	138.65	123.01	15.64	
	10/31/11	138.65	120.38	18.27	
	02/06/12	138.65	113.56	25.09	
MW-23	09/15/03	137.16	147.30	-10.14	
	09/19/03	137.33	147.75	-10.42	
	09/23/03	137.33	147.75	-10.42	
	09/25/03	137.33	147.87	-10.54	
	10/08/03	137.33	148.09	-10.76	
	10/14/03	137.33	148.21	-10.88	
	12/02/03	137.33	136.17	1.16	
	12/15/03	137.33	133.83	3.50	
	03/29/04	137.33	123.30	14.03	
	04/29/04	137.33	123.77	13.56	
	06/14/04	137.33	130.20	7.13	
	09/20/04	137.33	140.19	-2.86	
	10/19/04	137.33	UTM	--	
	11/10/04	137.33	137.76	-0.43	
	12/06/04	137.33	133.56	3.77	
	03/14/05	137.33	120.52	16.81	
	06/20/05	137.33	127.18	10.15	
	07/13/05	137.33	123.89	13.44	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-23	09/19/05	137.33	133.50	3.83	
(Cont'd)	09/21/05	137.33	133.67	3.66	
	12/17/05	137.33	111.74	25.59	
	03/20/06	137.33	108.90	28.43	
	05/18/06	137.33	101.55	35.78	
	06/19/06	137.33	104.32	33.01	
	09/25/06	137.33	111.42	25.91	
	12/12/06	137.33	108.30	29.03	
	03/12/07	137.33	113.48	23.85	
	06/18/07	137.33	125.48	11.85	
	09/24/07	137.33	144.94	-7.61	
	12/10/07	137.33	150.40	-13.07	
	12/20/07	137.33	150.23	-12.90	
	03/17/08	137.33	145.00	-7.67	
	04/21/08	137.33	145.50	-8.17	
	06/23/08	137.33	150.33	-13.00	
	08/26/08	137.33	166.71	-29.38	
	09/22/08	137.33	158.58	-21.25	
	12/15/08	137.33	158.48	-21.15	
	03/16/09	137.33	146.43	-9.10	
	06/23/09	137.33	147.50	-10.17	
	08/31/09	137.33	151.58	-14.25	
	10/23/09	137.33	148.44	-11.11	
	10/30/09	137.33	147.82	-10.49	
	11/04/09	137.33	147.40	-10.07	
	12/07/09	137.33	145.18	-7.85	
	03/01/10	137.33	140.52	-3.19	
	06/07/10	137.33	134.30	3.03	
	09/07/10	137.33	140.90	-3.57	
	12/06/10	137.33	139.15	-1.82	
	03/15/11	137.33	123.40	13.93	
	03/24/11	137.33	124.57	12.76	
	06/20/11	137.33	121.15	16.18	
	08/01/11	137.33	122.97	14.36	
	08/05/11	137.33	123.90	13.43	
	10/31/11	137.33	120.60	16.73	
	01/13/12	137.33	114.41	22.92	
	01/26/12	137.33	113.42	23.91	
	02/16/12	137.33	113.49	23.84	
MW-24	09/23/04	142.83	139.35	3.48	
	10/19/04	142.83	141.09	1.74	
	11/10/04	142.83	140.60	2.23	
	12/06/04	142.83	139.34	3.49	
	03/14/05	142.83	129.12	13.71	
	06/20/05	142.83	124.62	18.21	
	07/13/05	142.83	124.60	18.23	
	09/19/05	142.83	127.51	15.32	
	09/21/05	142.83	127.60	15.23	
	12/17/05	142.83	118.37	24.46	
	03/20/06	142.83	109.25	33.58	
	06/19/06	142.83	107.30	35.53	
	09/25/06	142.83	115.04	27.79	
	10/05/06	142.83	115.35	27.48	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-24	12/11/06	142.83	113.61	29.22	
(Cont'd)	03/12/07	142.83	111.60	31.23	
	06/18/07	142.83	118.08	24.75	
	09/24/07	142.83	135.15	7.68	
	12/10/07	142.83	143.49	-0.66	
	03/17/08	142.83	143.70	-0.87	
	06/23/08	142.83	145.17	-2.34	
	07/11/08	142.83	146.50	-3.67	
	07/14/08	142.83	146.72	-3.89	
	07/15/08	142.83	146.84	-4.01	
	09/22/08	142.83	151.29	-8.46	
	10/22/08	142.83	152.72	-9.89	
	12/15/08	142.83	154.29	-11.46	
	12/19/08	142.83	154.81	-11.98	
	02/25/09	142.83	153.94	-11.11	
	03/16/09	142.83	152.94	-10.11	
	03/18/09	142.83	152.55	-9.72	
	05/27/09	142.83	150.38	-7.55	
	06/22/09	142.83	150.37	-7.54	
	06/26/09	142.83	150.42	-7.59	
	08/31/09	142.83	152.31	-9.48	
	09/10/09	142.83	152.59	-9.76	
	12/07/09	142.83	152.04	-9.21	
	02/10/10	142.83	149.58	-6.75	
	02/12/10	142.83	149.53	-6.70	
	03/01/10	142.83	148.54	-5.71	
	06/07/10	142.83	142.40	0.43	
	09/07/10	142.83	143.41	-0.58	
	12/06/10	142.83	142.45	0.38	
	03/24/11	142.83	132.13	10.70	
	06/20/11	142.83	127.36	15.47	
	08/01/11	142.83	124.12	18.71	
	08/05/11	142.83	123.84	18.99	
	10/31/11	142.83	117.61	25.22	
	02/06/12	142.83	112.65	30.18	
MW-25	09/20/04	142.64	152.87	-10.23	
	10/19/04	142.64	145.96	-3.32	
	11/10/04	142.64	143.60	-0.96	
	12/06/04	142.64	140.84	1.80	
	03/14/05	142.64	129.79	12.85	
	06/20/05	142.64	125.06	17.58	
	07/13/05	142.64	122.98	19.66	
	09/19/05	142.64	126.64	16.00	
	09/21/05	142.64	127.57	15.07	
	12/17/05	142.64	115.32	27.32	
	03/20/06	142.64	107.47	35.17	
	06/19/06	142.64	106.28	36.36	
	09/25/06	142.64	114.63	28.01	
	10/05/06	142.64	117.63	25.01	
	12/12/06	142.64	113.90	28.74	
	03/12/07	142.64	111.03	31.61	
	06/18/07	142.64	118.13	24.51	
	09/24/07	142.64	137.17	5.47	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-25	12/10/07	142.64	148.21	-5.57	
(Cont'd)	12/20/07	142.64	151.34	-8.70	
	03/17/08	142.64	146.31	-3.67	
	06/23/08	142.64	147.94	-5.30	
	09/22/08	142.64	157.18	-14.54	
	10/22/08	142.64	158.43	-15.79	
	12/15/08	142.64	158.84	-16.20	
	12/19/08	142.64	158.79	-16.15	
	02/25/09	142.64	155.58	-12.94	
	03/16/09	142.64	153.43	-10.79	
	03/18/09	142.64	154.82	-12.18	
	05/27/09	142.64	150.45	-7.81	
	06/22/09	142.64	150.68	-8.04	
	06/26/09	142.64	151.00	-8.36	
	08/31/09	142.64	154.61	-11.97	
	09/10/09	142.64	154.66	-12.02	
	12/07/09	142.64	153.57	-10.93	
	03/01/10	142.64	146.59	-3.95	
	06/07/10	142.64	140.30	2.34	
	09/07/10	142.64	144.61	-1.97	
	12/06/10	142.64	141.89	0.75	
	03/24/11	142.64	125.44	17.20	
	06/20/11	142.64	125.12	17.52	
	08/01/11	142.64	120.05	22.59	
	10/31/11	142.64	113.28	29.36	
	02/06/12	142.64	109.05	33.59	
MW-26A	10/19/04	137.30	135.45	1.85	
	11/10/04	137.30	135.59	1.71	
	12/06/04	137.30	135.06	2.24	
	03/14/05	137.30	127.74	9.56	
	06/20/05	137.30	125.41	11.89	
	07/13/05	137.30	125.00	12.30	
	09/19/05	137.30	127.22	10.08	
	09/21/05	137.30	127.31	9.99	
	12/17/05	137.30	121.44	15.86	
	03/20/06	137.30	112.18	25.12	
	05/18/06	137.30	107.48	29.82	
	06/19/06	137.30	106.50	30.80	
	09/25/06	137.30	108.81	28.49	
	12/12/06	137.30	108.94	28.36	
	03/12/07	137.30	110.51	26.79	
	06/18/07	137.30	115.63	21.67	
	09/24/07	137.30	129.55	7.75	
	12/10/07	137.30	138.57	-1.27	
	12/20/07	137.30	139.55	-2.25	
	12/20/07	137.30	139.52	-2.22	
	01/21/08	137.30	141.21	-3.91	
	03/17/08	137.30	142.09	-4.79	
	04/21/08	137.30	142.34	-5.04	
	05/27/08	137.04	142.91	-5.87	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26A	06/23/08	137.04	144.94	-7.90	
(Cont'd)	08/26/08	137.04	147.75	-10.71	
	09/22/08	137.04	149.54	-12.50	
	12/15/08	137.04	153.18	-16.14	
	03/16/09	137.04	151.38	-14.34	
	06/22/09	137.04	147.67	-10.63	
	08/31/09	137.04	150.21	-13.17	
	10/13/09	137.04	150.44	-13.40	
	10/30/09	137.04	149.92	-12.88	
	12/07/09	137.04	148.20	-11.16	
	03/01/10	137.04	145.68	-8.64	
	03/22/10	137.04	144.06	-7.02	
	06/07/10	137.04	139.28	-2.24	
	09/07/10	137.04	139.18	-2.14	
	12/06/10	137.04	140.17	-3.13	
	03/24/11	137.04	130.88	6.16	
	06/20/11	137.04	126.68	10.36	
	08/01/11	137.04	125.09	11.95	
	10/31/11	137.04	122.65	14.39	
	02/06/12	137.04	117.96	19.08	
MW-26B	10/19/04	137.20	136.23	0.97	
	11/10/04	137.20	136.16	1.04	
	12/06/04	137.20	136.02	1.18	
	03/14/05	137.20	131.73	5.47	
	06/20/05	137.20	129.29	7.91	
	07/13/05	137.20	129.00	8.20	
	09/19/05	137.20	129.99	7.21	
	09/21/05	137.20	130.07	7.13	
	12/17/05	137.20	126.53	10.67	
	03/20/06	137.20	118.22	18.98	
	06/19/06	137.20	110.17	27.03	
	09/25/06	137.20	110.84	26.36	
	10/05/06	137.20	111.20	26.00	
	12/12/06	137.20	111.31	25.89	
	03/12/07	137.20	113.61	23.59	
	06/18/07	137.20	117.50	19.70	
	09/24/07	137.20	127.68	9.52	
	12/10/07	137.20	135.82	1.38	
	12/20/07	137.20	136.85	0.35	
	12/20/07	137.20	136.78	0.42	
	01/21/08	137.20	139.21	-2.01	
	03/17/08	137.20	142.10	-4.90	
	05/27/08	137.05	144.96	-7.91	
	06/23/08	137.05	146.29	-9.24	
	08/26/08	137.05	150.28	-13.23	
	09/22/08	137.05	151.94	-14.89	
	12/15/08	137.05	155.64	-18.59	
	12/19/08	137.05	156.13	-19.08	
	03/16/09	137.05	155.53	-18.48	
	03/18/09	137.05	155.16	-18.11	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26B	06/22/09	137.05	152.80	-15.75	
(Cont'd)	08/31/09	137.05	154.60	-17.55	
	09/10/09	137.05	154.60	-17.55	
	10/13/09	137.05	154.75	-17.70	
	10/14/09	137.05	154.80	-17.75	
	10/30/09	137.05	154.41	-17.36	
	12/07/09	137.05	153.17	-16.12	
	02/10/10	137.05	151.63	-14.58	
	03/01/10	137.05	151.04	-13.99	
	06/07/10	137.05	146.22	-9.17	
	09/07/10	137.05	144.57	-7.52	
	12/06/10	137.05	144.78	-7.73	
	03/24/11	137.05	138.67	-1.62	
	06/20/11	137.05	134.45	2.60	
	08/01/11	137.05	132.83	4.22	
	08/05/11	137.05	132.55	4.50	
	10/31/11	137.05	129.89	7.16	
	02/06/12	137.05	125.63	11.42	
MW-26C	10/19/04	137.28	141.81	-4.53	
	11/10/04	137.28	139.83	-2.55	
	12/06/04	137.28	135.90	1.38	
	03/14/05	137.28	121.75	15.53	
	06/20/05	137.28	128.11	9.17	
	07/13/05	137.28	125.75	11.53	
	09/19/05	137.28	137.35	-0.07	
	09/21/05	137.28	137.45	-0.17	
	12/17/05	137.28	112.48	24.80	
	03/20/06	137.28	109.21	28.07	
	06/19/06	137.28	104.32	32.96	
	09/25/06	137.28	113.96	23.32	
	10/05/06	137.28	114.08	23.20	
	12/12/06	137.28	111.13	26.15	
	03/12/07	137.28	119.52	17.76	
	06/18/07	137.28	130.71	6.57	
	09/24/07	137.28	153.19	-15.91	
	12/10/07	137.28	160.43	-23.15	
	12/20/07	137.28	160.88	-23.60	
	01/21/08	137.28	157.99	-20.71	
	02/21/08	137.28	155.52	-18.24	
	03/17/08	137.28	154.73	-17.45	
	04/21/08	137.28	155.21	-17.93	
	05/27/08	137.06	158.25	-21.19	
	06/10/08	137.06	159.70	-22.64	
	06/23/08	137.06	161.15	-24.09	
	07/16/08	137.06	164.52	-27.46	
	08/26/08	137.06	169.10	-32.04	
	09/22/08	137.06	170.89	-33.83	
	10/22/08	137.06	171.58	-34.52	
	12/15/08	137.06	169.04	-31.98	
	12/19/08	137.06	169.36	-32.30	
	01/07/09	137.06	163.22	-26.16	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-26C	03/16/09	137.06	153.10	-16.04	
(Cont'd)	03/18/09	137.06	152.44	-15.38	
	04/29/09	137.06	148.57	-11.51	
	06/22/09	137.06	152.47	-15.41	
	06/26/09	137.06	155.40	-18.34	
	08/31/09	137.06	158.68	-21.62	
	09/10/09	137.06	161.04	-23.98	
	10/13/09	137.06	156.48	-19.42	
	10/14/09	137.06	156.42	-19.36	
	10/23/09	137.06	154.73	-17.67	
	10/30/09	137.06	154.12	-17.06	
	11/04/09	137.06	153.77	-16.71	
	12/07/09	137.06	150.92	-13.86	
	01/19/10	137.06	149.68	-12.62	
	02/10/10	137.06	145.81	-8.75	
	02/12/10	137.06	145.52	-8.46	
	03/01/10	137.06	143.18	-6.12	
	06/07/10	137.06	140.37	-3.31	
	07/30/10	137.22	144.20	-6.98	
	09/07/10	137.22	147.97	-10.75	
	12/06/10	137.22	145.78	-8.56	
	03/01/11	137.22	128.33	8.89	
	03/24/11	137.22	130.31	6.91	
	03/25/11	137.22	129.76	7.46	
	06/20/11	137.22	125.03	12.19	
	06/23/11	137.22	125.92	11.30	
	08/01/11	137.22	127.39	9.83	
	08/05/11	137.22	127.92	9.30	
	10/31/11	137.22	125.34	11.88	
	11/01/11	137.22	125.37	11.85	
	02/06/12	137.22	117.23	19.99	
MW-27	05/27/08	137.16	157.80	-20.64	
	06/10/08	137.16	159.22	-22.06	
	06/23/08	137.16	160.75	-23.59	
	07/16/08	137.16	164.03	-26.87	
	08/26/08	137.16	168.65	-31.49	
	09/22/08	137.16	170.52	-33.36	
	10/22/08	137.16	171.19	-34.03	
	12/15/08	137.16	168.92	-31.76	
	12/19/08	137.16	169.05	-31.89	
	01/07/09	137.16	163.06	-25.90	
	03/16/09	137.16	153.24	-16.08	
	03/18/09	137.16	152.49	-15.33	
	04/29/09	137.16	148.59	-11.43	
	06/22/09	137.16	152.42	-15.26	
	06/24/09	137.16	154.08	-16.92	
	08/31/09	137.16	158.65	-21.49	
	09/10/09	137.16	160.81	-23.65	
	10/13/09	137.16	156.43	-19.27	
	10/14/09	137.16	156.35	-19.19	
	10/23/09	137.16	154.73	-17.57	
	10/30/09	137.16	154.10	-16.94	
	11/04/09	137.16	153.77	-16.61	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-27	12/07/09	137.16	150.98	-13.82	
(Cont'd)	01/19/10	137.16	149.60	-12.44	
	03/01/10	137.16	143.25	-6.09	
	03/02/10	137.16	143.02	-5.86	
	06/07/10	137.16	139.74	-2.58	
	07/30/10	137.16	143.73	-6.57	
	09/07/10	137.16	147.75	-10.59	
	12/06/10	137.16	145.39	-8.23	
	03/01/11	137.16	127.65	9.51	
	03/24/11	137.16	129.57	7.59	
	06/20/11	137.16	124.36	12.80	
	08/01/11	137.16	126.64	10.52	
	08/05/11	137.16	127.08	10.08	
	10/31/11	137.16	124.43	12.73	
	02/06/12	137.16	116.35	20.81	
MW-28	05/16/08	140.77	160.41	-19.64	
	05/27/08	140.77	161.69	-20.92	
	06/10/08	140.77	163.08	-22.31	
	06/23/08	140.77	164.55	-23.78	
	07/16/08	140.77	167.88	-27.11	
	08/26/08	140.77	174.46	-33.69	
	09/22/08	140.77	174.45	-33.68	
	10/22/08	140.77	175.11	-34.34	
	12/15/08	140.77	172.87	-32.10	
	12/19/08	140.77	172.97	-32.20	
	01/07/09	140.77	166.82	-26.05	
	03/16/09	140.77	157.25	-16.48	
	03/18/09	140.77	156.45	-15.68	
	04/29/09	140.77	152.49	-11.72	
	06/22/09	140.77	156.45	-15.68	
	06/24/09	140.77	157.74	-16.97	
	08/31/09	140.77	162.68	-21.91	
	09/10/09	140.77	164.54	-23.77	
	10/13/09	140.77	160.35	-19.58	
	10/14/09	140.77	160.32	-19.55	
	10/23/09	140.77	158.57	-17.80	
	10/30/09	140.77	158.02	-17.25	
	11/04/09	140.77	157.61	-16.84	
	12/07/09	140.77	154.74	-13.97	
	01/19/10	140.77	153.63	-12.86	
	03/01/10	140.77	147.29	-6.52	
	03/04/10	140.77	146.80	-6.03	
	06/07/10	140.77	143.98	-3.21	
	07/30/10	140.77	147.43	-6.66	
	09/07/10	140.77	151.67	-10.90	
	12/06/10	140.77	149.96	-9.19	
	03/01/11	140.77	132.48	8.29	
	03/24/11	140.77	133.95	6.82	
	06/20/11	140.77	129.10	11.67	
	08/01/11	140.77	131.02	9.75	
	08/05/11	140.77	131.37	9.40	
	10/31/11	140.77	129.07	11.70	
	02/06/12	140.77	120.98	19.79	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-29	08/15/08	142.21	174.90	-32.69	
	08/19/08	142.21	174.44	-32.23	
	08/26/08	142.21	175.21	-33.00	
	09/22/08	142.21	177.31	-35.10	
	10/22/08	142.21	178.13	-35.92	
	12/15/08	142.34	176.26	-33.92	
	01/07/09	142.34	170.00	-27.66	
	03/16/09	142.34	160.00	-17.66	
	03/18/09	142.34	159.22	-16.88	
	04/29/09	142.34	154.91	-12.57	
	06/22/09	142.34	158.97	-16.63	
	06/24/09	142.34	159.99	-17.65	
	08/31/09	142.34	165.42	-23.08	
	09/10/09	142.34	167.01	-24.67	
	10/13/09	142.34	162.76	-20.42	
	10/14/09	142.34	162.78	-20.44	
	10/23/09	142.34	161.07	-18.73	
	10/30/09	142.34	160.59	-18.25	
	11/04/09	142.34	160.05	-17.71	
	12/07/09	142.34	156.92	-14.58	
	01/19/10	142.34	156.32	-13.98	
	03/01/10	142.34	149.84	-7.50	
	03/04/10	142.34	149.36	-7.02	
	06/07/10	142.34	146.45	-4.11	
	07/30/10	142.34	149.78	-7.44	
	09/07/10	142.34	154.30	-11.96	
	12/06/10	142.34	153.12	-10.78	
	03/01/11	142.34	135.43	6.91	
	03/24/11	142.34	136.86	5.48	
	03/30/11	142.34	135.81	6.53	
	06/20/11	142.34	131.87	10.47	
	08/01/11	142.34	134.23	8.11	
	08/05/11	142.34	134.61	7.73	
	10/31/11	142.34	132.65	9.69	
	02/06/12	142.34	124.12	18.22	
MW-30A	12/04/08	129.44	164.15	-34.71	
	12/05/08	129.44	164.29	-34.85	
	12/15/08	129.44	162.77	-33.33	
	12/19/08	129.44	163.02	-33.58	
	01/07/09	129.44	156.65	-27.21	
	03/16/09	129.44	145.68	-16.24	
	03/18/09	129.44	144.93	-15.49	
	04/29/09	129.44	141.29	-11.85	
	06/22/09	129.44	145.32	-15.88	
	06/24/09	129.44	148.04	-18.60	
	08/31/09	129.44	151.45	-22.01	
	09/10/09	129.44	154.83	-25.39	
	10/13/09	129.44	149.24	-19.80	
	10/14/09	129.44	149.22	-19.78	
	10/23/09	129.44	147.49	-18.05	
	10/30/09	129.44	146.87	-17.43	
	11/04/09	129.44	146.56	-17.12	
	12/07/09	129.44	143.60	-14.16	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-30A	01/19/10	129.44	142.52	-13.08	
(Cont'd)	03/01/10	129.44	135.95	-6.51	
	03/03/10	129.44	135.69	-6.25	
	06/07/10	129.44	133.44	-4.00	
	07/30/10	129.44	137.11	-7.67	
	09/07/10	129.44	140.90	-11.46	
	12/06/10	129.44	138.63	-9.19	
	03/01/11	129.44	120.97	8.47	
	03/15/11	129.44	123.10	6.34	
	03/24/11	129.44	123.64	5.80	
	06/20/11	129.44	117.99	11.45	
	08/01/11	129.44	121.07	8.37	
	08/05/11	129.44	121.58	7.86	
	10/31/11	129.44	119.19	10.25	
	02/06/12	129.44	110.70	18.74	
MW-30B	12/04/08	129.39	160.82	-31.43	
	12/05/08	129.39	161.49	-32.10	
	12/15/08	129.39	160.27	-30.88	
	01/07/09	129.39	154.82	-25.43	
	03/16/09	129.39	144.60	-15.21	
	03/18/09	129.39	143.96	-14.57	
	04/29/09	129.39	141.03	-11.64	
	06/22/09	129.39	144.02	-14.63	
	06/24/09	129.39	147.85	-18.46	
	08/31/09	129.39	149.39	-20.00	
	09/10/09	129.39	154.06	-24.67	
	10/13/09	129.39	147.92	-18.53	
	10/14/09	129.39	147.93	-18.54	
	10/23/09	129.39	146.17	-16.78	
	10/30/09	129.39	145.42	-16.03	
	11/04/09	129.39	145.25	-15.86	
	12/07/09	129.39	142.39	-13.00	
	01/19/10	129.39	140.64	-11.25	
	03/01/10	129.39	134.60	-5.21	
	06/07/10	129.39	130.92	-1.53	
	09/07/10	129.39	136.39	-7.00	
	12/06/10	129.39	133.99	-4.60	
	03/15/11	129.39	122	7	
	03/24/11	129.39	121.97	7.42	
	06/20/11	129.39	115.40	13.99	
	08/01/11	129.39	118.29	11.10	
	08/05/11	129.39	119.13	10.26	
	10/31/11	129.39	116.07	13.32	
	01/20/12	129.39	109.57	19.82	
	02/06/12	129.39	109.28	20.11	
MW-31	10/13/09	123.7	140.92	-17.2	
	10/14/09	123.7	140.85	-17.1	
	10/23/09	119.60	136.95	-17.35	
	10/30/09	119.60	136.26	-16.66	
	11/02/09	119.60	136.18	-16.58	
	12/07/09	119.60	133.45	-13.85	
	01/19/10	119.60	131.88	-12.28	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-31	02/10/10	119.60	127.61	-8.01	
(Cont'd)	02/12/10	119.60	127.51	-7.91	
	03/01/10	119.60	124.99	-5.39	
	06/07/10	119.60	122.62	-3.02	
	07/30/10	119.60	126.33	-6.73	
	09/07/10	119.60	129.42	-9.82	
	12/06/10	119.60	125.45	-5.85	
	03/01/11	119.60	108.80	10.80	
	03/24/11	119.60	112.56	7.04	
	06/20/11	119.60	106.02	13.58	
	08/01/11	119.60	110.28	9.32	
	08/05/11	119.60	111.32	8.28	
	10/31/11	119.60	107.84	11.76	
	02/06/12	119.60	99.66	19.94	
MW-32A	01/04/10	92.88	110.20	-17.32	
	01/19/10	92.88	107.34	-14.46	
	02/10/10	92.88	101.90	-9.02	
	02/12/10	92.88	102.03	-9.15	
	03/01/10	92.88	99.24	-6.36	
	06/07/10	92.88	97.01	-4.13	
	09/07/10	92.88	104.02	-11.14	
	12/06/10	92.88	100.08	-7.20	
	03/24/11	92.88	87.97	4.91	
	06/20/11	92.88	80.19	12.69	
	08/01/11	92.88	87.56	5.32	
	10/14/11	92.88	84.70	8.18	
	10/31/11	92.88	85.17	7.71	
	02/06/12	92.88	75.40	17.48	
MW-32B	01/04/10	92.89	109.29	-16.40	
	01/19/10	92.89	106.40	-13.51	
	02/10/10	92.89	101.75	-8.86	
	02/12/10	92.89	101.68	-8.79	
	03/01/10	92.89	99.18	-6.29	
	03/04/10	92.89	99.22	-6.33	
	06/07/10	92.89	96.71	-3.82	
	07/30/10	92.89	100.91	-8.02	
	09/07/10	92.89	103.45	-10.56	
	12/06/10	92.89	99.75	-6.86	
	03/01/11	92.89	82.87	10.02	
	03/24/11	92.89	87.67	5.22	
	06/20/11	92.89	80.34	12.55	
	08/01/11	92.89	86.35	6.54	
	10/14/11	92.89	83.95	8.94	
	10/31/11	92.89	84.01	8.88	
	02/06/12	92.89	74.84	18.05	
MW-32C	01/05/10	92.88	102.93	-10.05	
	01/19/10	92.88	102.03	-9.15	
	02/10/10	92.88	100.10	-7.22	
	02/12/10	92.88	100.03	-7.15	
	03/01/10	92.88	98.65	-5.77	
	06/07/10	92.88	93.19	-0.31	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-32C	09/07/10	92.88	96.89	-4.01	
(Cont'd)	12/06/10	92.88	94.01	-1.13	
	03/24/11	92.88	81.27	11.61	
	06/20/11	92.88	77.32	15.56	
	08/01/11	92.88	74.40	18.48	
	10/14/11	92.88	67.59	25.29	
	10/31/11	92.88	68.65	24.23	
	02/06/12	92.88	63.71	29.17	
MW-33	07/16/10	83.19	89.80	-6.61	
	07/30/10	83.19	92.32	-9.13	
	09/07/10	83.19	94.86	-11.67	
	12/06/10	83.19	90.88	-7.69	
	03/01/11	83.19	73.60	9.59	
	03/15/11	83.19	85.21	-2.02	
	03/24/11	83.19	80.03	3.16	
	06/20/11	83.19	71.50	11.69	
	08/01/11	83.19	82.56	0.63	
	10/14/11	83.19	80.82	2.37	
	10/31/11	83.19	77.92	5.27	
	02/06/12	83.19	68.13	15.06	
MW-34A	02/25/11	153.25	142.78	10.47	
	03/10/11	153.25	142.26	10.99	
	03/15/11	153.25	143.61	9.64	
	03/24/11	153.25	144.68	8.57	
	06/20/11	153.25	140.26	12.99	
	08/01/11	153.25	143.63	9.62	
	10/14/11	153.25	140.77	12.48	
	10/31/11	153.25	141.95	11.30	
	02/06/12	153.25	134.13	19.12	
MW-34B	02/25/11	153.11	146.89	6.22	
	03/01/11	153.11	146.32	6.79	
	03/10/11	153.11	146.80	6.31	
	03/15/11	153.11	147.91	5.20	
	03/24/11	153.11	148.84	4.27	
	06/20/11	153.11	142.81	10.30	
	08/01/11	153.11	147.20	5.91	
	09/30/11	153.11	146.12	6.99	
	10/14/11	153.11	144.55	8.56	
	10/31/11	153.11	146.19	6.92	
	02/06/12	153.11	136.92	16.19	
MW-34C	02/25/11	153.29	145.40	7.89	
	03/10/11	153.29	148.34	4.95	
	03/15/11	153.29	149.75	3.54	
	03/24/11	153.29	149.08	4.21	
	06/20/11	153.29	141.68	11.61	
	08/01/11	153.29	146.36	6.93	
	10/14/11	153.29	144.06	9.23	
	10/31/11	153.29	144.52	8.77	
	02/06/12	153.29	136.08	17.21	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
MW-35A	01/19/11	93.57	77.69	15.88	
	02/03/11	93.57	77.51	16.06	
	03/24/11	93.57	76.01	17.56	
	06/20/11	93.57	71.74	21.83	
	08/01/11	93.57	75.29	18.28	
	10/31/11	93.57	71.55	22.02	
	02/06/12	93.57	64.46	29.11	
MW-35B	01/19/11	93.56	84.50	9.06	
	02/03/11	93.56	84.59	8.97	
	03/24/11	93.56	82.95	10.61	
	06/20/11	93.56	78.82	14.74	
	08/01/11	93.56	82.78	10.78	
	10/31/11	93.56	79.67	13.89	
	02/06/12	93.56	72.06	21.50	
MW-35C	01/19/11	93.55	88.79	4.76	
	02/03/11	93.55	88.62	4.93	
	03/01/11	93.55	82.54	11.01	
	03/24/11	93.55	87.38	6.17	
	06/20/11	93.55	80.47	13.08	
	08/01/11	93.55	86.38	7.17	
	10/31/11	93.55	83.44	10.11	
	02/06/12	93.55	74.42	19.13	
MW-36	01/13/12	86.65	76.60	10.05	
	01/26/12	86.65	76.55	10.10	
	02/06/12	86.65	76.62	10.03	
EW-01	06/20/05	142.65	132.89	9.76	
	09/19/05	142.65	140.63	2.02	
	09/21/05	142.65	140.88	1.77	
	12/17/05	142.65	119.06	23.59	
	03/20/06	142.65	112.76	29.89	
	05/18/06	142.65	105.98	36.67	
	06/19/06	142.65	108.61	34.04	
	09/25/06	142.65	118.60	24.05	
	12/11/06	142.5	116.08	26.4	
	03/12/07	142.5	122.93	19.6	
	06/18/07	142.5	133.31	9.2	
	09/24/07	142.5	157.35	-14.9	
	12/10/07	142.5	164.54	-22.0	
	12/20/07	142.5	164.75	-22.3	
	01/21/08	140.3	162.41	-22.1	
	03/17/08	140.3	156.96	-16.7	
	05/27/08	141.13	160.10	-18.97	
	06/10/08	141.13	161.48	-20.35	
	06/23/08	141.13	162.89	-21.76	
	07/09/08	141.07	165.87	-24.80	Pilot GETS
	07/11/08	141.07	165.59	-24.52	
	07/14/08	141.07	165.71	-24.64	
	07/15/08	141.07	167.64	-26.57	Pilot GETS
	07/30/08	141.07	168.45	-27.38	Pilot GETS

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-01	08/14/08	141.07	> 172.65	< -31.58	Pilot GETS
(Cont'd)	08/25/08	141.07	171.89	-30.82	Pilot GETS
	09/22/08	141.07	> 172.65	< -31.58	Pilot GETS
	10/22/08	141.07	> 172.65	< -31.58	Pilot GETS
	12/15/08	141.07	171.93	-30.86	
	12/19/08	141.07	171.74	-30.67	
	01/07/09	141.07	165.86	-24.79	
	02/25/09	141.07	162.17	-21.10	Pilot GETS
	03/16/09	141.07	157.84	-16.77	Pilot GETS
	03/18/09	141.07	158.69	-17.62	Pilot GETS
	04/29/09	141.07	152.31	-11.24	
	04/29/09	141.07	152.85	-11.78	Pilot GETS
	05/27/09	141.07	155.10	-14.03	Pilot GETS
	06/22/09	141.07	156.88	-15.81	Pilot GETS
	06/26/09	141.07	157.98	-16.91	Pilot GETS
	06/29/09	141.07	158.68	-17.61	Pilot GETS
	07/22/09	141.07	164.06	-22.99	Pilot GETS
	08/14/09	141.07	168.21	-27.14	Pilot GETS
	08/31/09	141.07	163.05	-21.98	Pilot GETS
	09/10/09	141.07	164.32	-23.25	Pilot GETS
	09/11/09	141.07	164.23	-23.16	Pilot GETS
	10/08/09	141.07	> 172.65	< -31.58	Pilot GETS
	10/23/09	141.07	158.25	-17.18	Pilot GETS
	10/30/09	141.07	157.75	-16.68	
	11/04/09	141.07	157.23	-16.16	
	12/07/09	141.07	154.56	-13.49	
	12/09/09	141.07	155.28	-14.21	
	01/19/10	141.07	153.29	-12.22	
	03/01/10	141.07	147.07	-6.00	
	06/07/10	141.07	142.43	-1.36	
	09/07/10	141.07	150.09	-9.02	
	12/06/10	141.07	148.66	-7.59	
	03/01/11	141.07	131.68	9.39	
	03/24/11	141.07	132.08	8.99	
	06/20/11	141.07	127.90	13.17	
	08/01/11	141.07	128.94	12.13	
	08/05/11	141.07	129.27	11.80	
	10/14/11	141.07	125.48	15.59	
	10/31/11	141.07	126.74	14.33	
	01/05/12	141.07	121.24	19.83	
	02/06/12	141.07	119.36	21.71	
EW-02	10/23/09	137.6	137.92	-0.3	
	10/30/09	137.6	156.81	-19.2	
	10/31/09	137.6	155.97	-18.3	
	11/04/09	136.2	153.21	-17.0	
	12/07/09	132.97	UTM	--	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Regional Groundwater System Monitor and Extraction Wells (continued)					
EW-02	02/10/10	132.97	142.49	-9.52	
(Cont'd)	03/01/10	132.97	139.89	-6.92	
	03/22/10	132.97	136.73	-3.76	Pre-Startup
	03/22/10	132.97	143.6	-10.6	Pilot GETS
	03/23/10	132.97	143.25	-10.28	Pilot GETS
	03/24/10	132.97	144.42	-11.45	Pilot GETS
	03/25/10	132.97	144.60	-11.63	Pilot GETS
	03/26/10	132.97	144.99	-12.02	Pilot GETS
	06/07/10	132.97	143.34	-10.37	Pilot GETS
	06/10/10	132.97	143.42	-10.45	Pilot GETS
	07/08/10	132.97	144.76	-11.79	Pilot GETS
	07/30/10	132.97	145.5	-12.53	Pilot GETS
	08/02/10	132.97	146.95	-13.98	Pilot GETS
	09/02/10	132.97	150.82	-17.85	Pilot GETS
	09/07/10	132.97	150.46	-17.49	Pilot GETS
	10/07/10	132.97	153.49	-20.52	Pilot GETS
	11/11/10	132.97	153.63	-20.66	Pilot GETS
	12/07/10	132.97	148.62	-15.65	Pilot GETS
	01/13/11	132.97	138.52	-5.55	Pilot GETS
	02/03/11	132.97	136.61	-3.64	Pilot GETS
	03/02/11	132.97	130.70	2.27	Pilot GETS
	03/24/11	132.97	133.23	-0.26	Pilot GETS
	04/01/11	132.97	132.74	0.23	Pilot GETS
	05/04/11	132.97	134.42	-1.45	Pilot GETS
	06/07/11	132.97	129.64	3.33	Pilot GETS
	06/20/11	132.97	128.12	4.85	Pilot GETS
	07/02/11	132.97	127.73	5.24	Pilot GETS
	08/01/11	132.97	130.41	2.56	Pilot GETS
	08/05/11	132.97	130.83	2.14	Pilot GETS
	09/09/11	132.97	131.13	1.84	Pilot GETS
	09/30/11	132.97	128.61	4.36	
	10/17/11	132.97	127.67	5.30	Pilot GETS
	10/31/11	132.97	128.83	4.14	Pilot GETS
	11/01/11	132.97	128.76	4.21	Pilot GETS
	12/07/11	132.97	122.0	11.0	Pilot GETS
	12/08/12	132.97	123.51	9.46	Pilot GETS
	01/06/12	132.97	119.6	13.4	Pilot GETS
	01/10/12	132.97	120.72	12.25	Pilot GETS
	02/06/12	132.97	118.95	14.02	Pilot GETS
	02/08/12	132.97	119.22	13.75	Pilot GETS
	03/09/12	132.97	113.25	19.72	Pilot GETS
Perched Zone Water Levels					
P-07	06/12/97	165.34	135.20	30.14	
	05/13/98	165.34	135.11	30.23	
	05/27/98	165.34	135.12	30.22	
	06/11/98	165.34	135.15	30.19	
	07/14/98	165.34	135.26	30.08	
	11/11/98	165.34	135.39	29.95	
	11/18/98	165.34	135.42	29.92	SVE, DPE-H2O
	11/18/98	165.34	135.48	29.86	SVE, DPE-H2O
	11/19/98	165.34	135.36	29.98	SVE, DPE-H2O
	11/20/98	165.34	135.44	29.90	SVE, DPE, DPE-H2O
	11/23/98	165.34	135.36	29.98	SVE, DPE-H2O

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-07	11/23/98	165.34	135.52	29.82	SVE, DPE-H2O
(Cont'd)	11/24/98	165.34	135.53	29.81	SVE, DPE-H2O
	12/07/98	165.34	135.40	29.94	SVE, DPE-H2O
	12/07/98	165.34	135.52	29.82	SVE, DPE-H2O
	12/10/98	165.34	135.50	29.84	SVE, DPE, DPE-H2O
	12/11/98	165.34	135.37	29.97	SVE, DPE, DPE-H2O
	12/14/98	165.34	135.26	30.08	SVE, DPE-H2O
	12/14/98	165.34	135.27	30.07	SVE, DPE-H2O
	12/16/98	165.34	135.48	29.86	SVE, DPE, DPE-H2O
	01/06/99	165.34	135.36	29.98	SVE, DPE, DPE-H2O
	01/20/99	165.34	135.20	30.14	
	01/25/99	165.34	135.50	29.84	DPE, DPE-H2O
	01/27/99	165.34	135.51	29.83	SVE, DPE, DPE-H2O
	02/01/99	165.34	135.25	30.09	SVE, DPE, DPE-H2O
	02/10/99	165.34	135.56	29.78	SVE, DPE, DPE-H2O
	02/23/99	165.34	135.17	30.17	
	03/01/99	165.34	135.55	29.79	DPE
	03/12/99	165.34	135.51	29.83	SVE, DPE, DPE-H2O
	03/15/99	165.34	135.59	29.75	SVE, DPE, DPE-H2O
	03/17/99	165.34	135.54	29.80	SVE, DPE, DPE-H2O
	03/29/99	165.34	135.34	30.00	SVE, DPE-H2O
	04/07/99	165.34	DRY	--	SVE, DPE-H2O
	04/12/99	165.34	135.58	29.76	SVE, DPE-H2O
	04/23/99	165.34	135.22	30.12	SVE, DPE-H2O
	04/29/99	165.34	DRY	--	SVE, DPE-H2O
	05/17/99	165.34	135.66	29.68	SVE, DPE-H2O
	06/16/99	165.34	135.66	29.68	SVE, DPE-H2O
	06/25/99	165.34	135.28	30.06	SVE, DPE-H2O
	07/15/99	165.34	135.57	29.77	DPE, DPE-H2O
	08/30/99	165.34	135.58	29.76	DPE-H2O
	09/27/99	165.34	135.58	29.76	5.6 inches water in vaccum
	11/02/99	165.34	135.56	29.78	5 inches water in vaccum
	11/23/99	165.34	135.27	30.07	
	11/23/99	165.34	135.13	30.21	
	11/23/99	165.34	135.14	30.20	
	12/06/99	165.34	135.70	29.64	
	02/07/00	165.34	135.49	29.85	
	07/05/00	165.34	135.03	30.31	
	01/16/01	145.52	115.25	30.27	
	03/19/01	145.52	115.34	30.18	
	03/26/01	145.52	115.24	30.28	
	04/03/01	145.52	115.30	30.22	
	04/10/01	145.52	115.20	30.32	
	04/17/01	145.52	115.20	30.32	
	04/26/01	145.52	115.30	30.22	
	05/10/01	145.52	115.35	30.17	
	06/26/01	145.52	115.16	30.36	
	09/10/01	142.31	111.91	30.40	
	10/24/01	142.31	112.04	30.27	
	01/15/02	142.31	111.98	30.33	
	03/19/02	142.31	111.92	30.39	
	04/15/02	142.31	112.04	30.27	
	10/31/02	142.31	112.13	30.18	
	11/18/02	142.31	112.11	30.20	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-07	05/08/03	142.31	112.48	29.83	
(Cont'd)	06/09/03	142.31	112.94	29.37	
	09/15/03	142.31	113.65	28.66	
	10/14/03	142.31	113.82	28.49	
	12/15/03	142.31	114.04	28.27	
	03/29/04	142.31	112.42	29.89	
	06/14/04	142.31	113.91	28.40	
	09/20/04	142.31	DRY		Dry to 117.4 feet bls. Water level
				--	elevation <24.9 feet msl.
	10/19/04	142.31	116.30	26.01	
	12/06/04	142.31	115.65	26.66	
	03/15/05	142.31	DRY	--	Dry @ 116.8 ft.
	09/19/05	142.31	DRY	--	Dry @ 115.0 ft bls.
	12/17/05	142.31	112.26	30.05	
	03/20/06	142.31	110.94	31.37	
	06/19/06	142.31	107.57	34.74	
	09/25/06	142.31	111.19	31.12	
	12/11/06	142.31	111.22	31.09	
	03/12/07	142.31	111.71	30.60	
	06/18/07	142.31	114.92	27.39	
	09/24/07	142.31	DRY	--	
	12/10/07	142.31	DRY	--	Dry @ 115.16 ft bls.
	03/17/08	142.31	114.58	27.73	
	06/23/08	142.31	114.13	28.18	
	09/22/08	142.31	113.85	28.46	
	12/15/08	142.31	113.47	28.84	
	03/16/09	142.31	113.13	29.18	
	06/22/09	142.31	112.81	29.50	
	08/31/09	142.31	112.67	29.64	
	12/07/09	142.31	112.52	29.79	
	03/01/10	142.31	112.34	29.97	
	06/07/10	142.31	112.24	30.07	
	09/07/10	142.31	112.51	29.80	
	12/06/10	142.31	112.27	30.04	
	03/24/11	142.31	111.51	30.80	
	06/20/11	142.31	111.36	30.95	
	08/01/11	142.31	111.31	31.00	
	10/31/11	142.31	111.28	31.03	
	02/06/12	142.31	111.01	31.30	
P-09	09/15/03	183.86	121.85	62.01	
	10/08/03	183.86	121.68	62.18	
	10/14/03	183.86	121.53	62.33	
	12/15/03	183.86	122.09	61.77	
	03/29/04	183.86	122.03	61.83	
	06/14/04	183.86	122.29	61.57	
	09/20/04	183.86	122.49	61.37	
	11/10/04	183.86	122.00	61.31	
	12/06/04	183.86	122.93	61.10	
	03/14/05	183.86	121.45	62.41	
	06/20/05	183.86	121.50	62.36	
	09/19/05	183.86	121.34	62.52	
	12/17/05	183.86	121.32	62.54	
	03/20/06	183.86	121.20	62.66	

TABLE 3

GROUNDWATER LEVELS

Well Identifier	Date Measured	Reference Point Elevation (a) (feet msl)	Depth to Water (feet bls)	Water Level Elevation (feet msl)	Remediation System On
Perched Zone Water Levels (continued)					
P-09	06/19/06	183.86	120.96	62.90	
(Cont'd)	09/25/06	183.86	120.85	63.01	
	12/12/06	183.86	120.94	62.92	
	03/12/07	183.86	120.93	62.93	
	06/18/07	183.86	120.80	63.06	
	09/24/07	183.86	120.91	62.95	
	12/10/07	183.86	120.84	63.02	
	03/17/08	183.86	120.76	63.10	
	06/23/08	183.86	120.73	63.13	
	09/22/08	183.86	120.83	63.03	
	12/15/08	183.86	120.64	63.22	
	03/16/09	183.86	120.70	63.16	
	06/22/09	183.86	120.66	63.20	
	08/31/09	183.86	120.75	63.11	
	12/07/09	183.86	120.80	63.06	
	03/01/10	183.86	120.74	63.12	
	06/07/10	183.86	120.69	63.17	
	09/07/10	183.86	120.78	63.08	
	12/06/10	183.86	120.60	63.26	
	03/24/11	183.86	120.44	63.42	
	06/20/11	183.86	120.48	63.38	
	08/01/11	183.86	120.48	63.38	
	10/31/11	183.86	120.50	63.36	
	02/06/12	183.86	120.50	63.36	

FOOTNOTES

(a) Reference point elevations are relative to City of Fullerton datum.

(>) = Greater than
(<) = Less than
(--) = Not Calculated
bls = Below land surface
msl = Mean sea level
NA = Reference Point Not Available
SVE = Soil Vapor Extraction System On
DPE = Vapor Phase Dual Vapor Extraction System On
DPE-H2O = Water Phase Dual Vapor Extraction System On
Pilot GETS = Pilot Groundwater Extraction and Treatment System On
UTM = Unable to Measure

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells																
MW-06	01/30/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-600	01/30/97	FD	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-06	02/19/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-06	02/09/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-06	05/08/01	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-06	04/17/02	ORG	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-06	04/17/02	SPT	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-06	11/18/02	ORG	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	06/10/03	ORG	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-06	12/17/03	ORG	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/16/04	ORG	< 0.50	< 0.50	**2.2 U**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/09/04	ORG	< 0.50	< 0.50	**2.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
MW-06	06/23/05	ORG	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/20/05	ORG	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/21/06	ORG	< 0.50	< 0.50	**0.62**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/18/06	ORG	< 0.50	< 0.50	**2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/21/07	ORG	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/12/07	ORG	< 0.50	< 0.50	**0.78**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/26/08	ORG	< 0.50	< 0.50	**0.85 U**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	06/25/09	ORG	< 0.50	< 0.50	**0.52**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/08/09	ORG	< 0.50	< 0.50	**0.53**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06	06/08/10	ORG	< 0.50	< 0.50	**0.56**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	12/10/10	ORG	< 0.50	< 0.50	**0.62**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-06	02/08/12	ORG	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-06 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	0.52 - 2.8	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 2.0
MW-08	01/28/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.3**	< 1.0	< 1.0	NA
MW-08	02/19/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.9**	< 1.0	< 1.0	NA
MW-08	02/17/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-08	05/09/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	NA
MW-08	04/17/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.50	< 0.50	< 0.5
MW-08	04/17/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8**	< 0.50	< 0.50	< 1.0
MW-08	11/21/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**	< 0.50	< 0.50	< 0.50	< 0.50	**7.6**	< 0.50	< 0.50	NA
MW-08	06/11/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.98**	**0.67**	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	NA
MW-08	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.50	NA
MW-08	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	**0.52**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	NA
MW-08	06/17/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**64**	**5.6**	< 0.50	< 0.50	< 0.50	**89**	< 0.50	< 0.50	NA
MW-800	06/17/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**60**	**5.1**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	< 0.50	NA
MW-08	06/17/04	SPT	< 1	< 1	< 1	< 1	< 1	**48**	**4**	< 1	< 1	< 1	**65**	< 1	< 1	NA
MW-08	07/28/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23 E**	**2.5**	< 0.50	< 0.50	< 0.50	**40 E**	< 0.50	< 0.50	< 2
MW-800	07/28/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23 E**	**2.1**	< 0.50	< 0.50	< 0.50	**39 E**	< 0.50	< 0.50	< 2
MW-08	07/28/04	SPT	< 1	< 1	< 1	< 1	< 1	**13 E**	**1**	< 1	< 1	< 1	**23 E**	< 1	< 1	< 1
MW-08	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**	**1**	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	NA
MW-08	12/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.7**	**0.61**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 2.2
MW-08	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.7**	**0.65**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)												Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-08	06/24/05	ORG	**0.85**	< 0.50	< 0.50	< 0.50	< 0.50	**180**	**7.7**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 2.0
MW-800	06/24/05	FD	**0.87**	< 0.50	< 0.50	< 0.50	< 0.50	**160**	**7.6**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 2.0
MW-08	09/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**45 E**	**3.4**	< 0.50	< 0.50	< 0.50	**61 E**	< 0.50	< 0.50	< 2.0
MW-800	09/22/05	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22 E**	**2.1**	< 0.50	< 0.50	< 0.50	**39**	< 0.50	< 0.50	**20 U**
MW-08	09/22/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15 E**	**2**	< 0.50	< 0.50	< 0.50	**33 E**	**0.9**	< 0.50	< 1.0
MW-08	12/20/05	ORG	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**370**	**3.2**	**0.66**	< 0.50	< 0.50	**82**	< 0.50	< 0.50	**12**
MW-08	12/20/05	SPT	< 0.50	**0.5**	< 0.50	**2**	< 0.50	**350**	**3**	< 0.50	< 0.50	< 0.50	**76**	**0.5**	< 0.50	**13**
MW-08	03/23/06	ORG	< 0.50	< 0.50	**0.76**	**3.6**	**0.92**	**270**	**2.5**	**0.55**	< 0.50	< 0.50	**55**	< 0.50	< 0.50	**65**
MW-800	03/23/06	FD	< 0.50	< 0.50	**0.82**	**4.7**	**1.0**	**380**	**2.9**	**0.74**	< 0.50	< 0.50	**65**	< 0.50	< 0.50	**81**
MW-08	06/22/06	ORG	< 0.50	< 0.50	**0.69**	**5.1**	**0.99**	**500**	**2.6**	**1.3**	< 0.50	< 0.50	**69**	< 0.50	< 0.50	**130**
MW-800	06/22/06	FD	< 0.50	< 0.50	**0.69**	**5**	**1.0**	**410**	**2.5**	**1.2**	< 0.50	< 0.50	**69**	< 0.50	< 0.50	**110**
MW-08	06/22/06	SPT	< 3.0	< 3.0	< 3.0	**6**	< 3.0	**380**	**3**	< 3.0	< 3.0	< 3.0	**50**	< 3.0	< 3.0	**140**
MW-08	09/28/06	ORG	**0.95**	< 0.50	< 0.50	< 0.50	< 0.50	**27**	**6.5**	< 0.50	< 0.50	< 0.50	**120**	< 0.50	< 0.50	< 2.0
MW-800	09/28/06	FD	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	**24**	**7.7**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	09/28/06	SPT	**1**	< 0.50	< 0.50	< 0.50	< 0.50	**28**	**6.2**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 1
MW-08	12/19/06	ORG	**0.93**	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**7.1**	< 0.50	< 0.50	< 0.50	**130**	< 0.50	< 0.50	< 2.0
MW-800	12/19/06	FD	**0.95**	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**7.1**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	03/15/07	ORG	< 0.50	< 0.50	< 0.50	**0.57**	< 0.50	**120**	**4.5**	< 0.50	< 0.50	< 0.50	**90**	< 0.50	< 0.50	**26**
MW-08	06/22/07	ORG	< 0.50	< 0.50	**0.5**	**0.51**	< 0.50	**87**	**4.4**	< 0.50	< 0.50	< 0.50	**92**	< 0.50	< 0.50	**25**
MW-08	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32 E**	**1.5**	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	**7.7**
MW-800	09/26/07	FD	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**47 E**	**1.5**	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	**8.2**
MW-08	09/26/07	SPT	< 1	< 1	< 1	< 1	< 1	**42 E**	**1**	< 1	< 1	< 1	**26**	< 1	< 1	**11**
MW-08	12/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**39**	**1.3**	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	**6**
MW-08	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28**	**0.97**	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	**5.4**
MW-800	03/18/08	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**	**1.1**	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	**5.3**
MW-08	03/18/08	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	**0.9**	< 0.50	< 0.50	< 0.50	**21**	**0.6**	< 0.50	**7**
MW-08	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**	**1.3**	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	**5.9**
MW-08	09/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	**1.0**	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	**3.7 BU**
MW-08	12/19/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	**0.7**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	**3.9**
MW-08	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	**1.2**	< 0.50	< 0.50	< 0.50	**21**	< 0.50	< 0.50	**3.9**
MW-08	06/25/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	**1.1**	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	**2.7**
MW-08	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	**0.56**	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	**2.4**
MW-08	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	**0.68**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	**7.2**
MW-08	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**	**0.87**	< 0.50	< 0.50	< 0.50	**21**	< 0.50	< 0.50	**8.4**
MW-08	06/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**	**7.1**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	09/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**	**9.8**	< 0.50	< 0.50	< 0.50	**200**	< 0.50	< 0.50	**2.4**
MW-08	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	**6.0**	< 0.50	< 0.50	< 0.50	**110**	< 0.50	< 0.50	< 2.0
MW-08	03/30/11	ORG	**0.84**	< 0.50	**0.69**	< 0.50	< 0.50	**38**	**10**	< 0.50	< 0.50	< 0.50	**230**	< 0.50	< 0.50	< 0.20
MW-08	06/24/11	ORG	**0.57**	< 0.50	**0.65**	< 0.50	< 0.50	**67**	**9.4**	< 0.50	< 0.50	< 0.50	**210**	< 0.50	< 0.50	**0.75**
MW-800	06/24/11	FD	**0.56**	< 0.50	**0.67**	< 0.50	< 0.50	**68**	**9.0**	< 0.50	< 0.50	< 0.50	**220**	< 0.50	< 0.50	**0.59**
MW-08	08/02/11	ORG	**0.64**	< 0.50	**0.86**	< 0.50	< 0.50	**190**	**13**	< 0.50	< 0.50	< 0.50	**480**	< 0.50	< 0.50	**0.69**
MW-08	11/04/11	ORG	< 0.50	< 0.50	**0.6**	< 0.50	< 0.50	**39.4**	**9.2**	< 0.50	< 0.50	< 0.50	**200**	< 0.50	< 0.50	**0.40**
MW-0800	11/04/11	FD	< 0.50	< 0.50	**0.6**	< 0.50	< 0.50	**39.5**	**7.6**	< 0.50	< 0.50	< 0.50	**170**	< 0.50	< 0.50	**0.40**
MW-08	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**	**8.4**	< 0.50	< 0.50	< 0.50	**170**	< 0.50	< 0.50	**0.94**
MW-08 Historical Range* **			< 0.50 - 0.95	< 0.50	< 0.50 - 0.86	< 0.50 - 5.1	< 0.50 - 0.99	< 0.50 - 500	< 0.50 - 13	< 0.50 - 1.3	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 480	< 0.50 - 1.0	< 0.50 - 1.0	< 0.5 - 130

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-09	03/26/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-09	04/10/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-09	02/17/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-09	11/21/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	**7.6**
MW-900	11/21/02	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	**7.7**
MW-09	11/21/02	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3**	< 1.0	**6.8**
MW-09	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**4**
MW-900	06/10/03	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	**7.4**
MW-09	06/10/03	SPT	< 1	< 1	< 1	< 1	< 1	**2**	< 1	< 1	< 1	< 1	< 1	**2**	< 1	**3.8**
MW-09	09/24/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.81**	< 0.50	< 2.0
MW-900	12/18/03	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 2.0
MW-09	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 2.0
MW-09	06/16/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 2.0
MW-09	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 2.1
MW-09	03/15/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	< 2.2
MW-09	03/15/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.5**	< 0.50	**3**
MW-09	06/23/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	03/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/28/06	ORG	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	**32**	< 0.50	< 0.50	< 0.50	< 0.50	**0.96**	< 0.50	< 0.50	**52 E**
MW-09	12/19/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 E
MW-900	12/19/06	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.1 E**
MW-09	03/14/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.75**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**
MW-09	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.54**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/08/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
MW-09	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	06/11/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	09/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-09	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09	08/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**
MW-09	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-09 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.79	< 0.50 - < 5.0	< 0.50 - 4.9	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.96	< 0.50 - 5.3	< 0.50 - < 5.0	< 0.20 - 52 E

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-13	04/22/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	NA
MW-13	05/21/97	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-13	02/15/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-13	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0
MW-13	05/07/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-13	10/24/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-13	04/17/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-13	04/17/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-13	11/19/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.78**	< 0.50	< 0.5
MW-13	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.5
MW-13	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 2.0
MW-13	06/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 2.0
MW-13	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 2.1
MW-13	06/23/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	**3.8**	< 0.50	< 2.0
MW-13	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**3.7**	< 0.50	< 2.0
MW-13	06/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.58**	**3.5**	< 0.50	**2.4**
MW-13	09/29/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.5**	< 0.50	< 2.0
MW-13	09/29/06	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.5**	**3**	< 0.50	< 1
MW-13	12/14/06	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	< 2.0
MW-13	06/21/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.0
MW-13	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-13	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 2.0
MW-13	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.5
MW-13	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 2.0
MW-13	12/08/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.0
MW-13	06/11/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	< 0.50	< 2.0
MW-13	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 2.0
MW-13	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	< 0.20
Historical High/Low														**HIGH**		
MW-13 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 0.60	< 0.50 - 4.5	< 0.50 - < 5.0	< 0.50 - 2.4
MW-15	05/27/98	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5**	< 5.0	< 5.0	NA
MW-15	06/11/98	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.5**	**20**	< 5.0	NA
MW-15	02/16/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.9**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.6**	< 5.0	NA
MW-1500	02/16/00	FD	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.7**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.8**	< 5.0	NA
MW-15	07/05/00	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**8.4**	< 1.0	< 1.0	< 1.0	< 1.0	**1.9**	**4.7**	< 1.0	NA
MW-15	07/05/00	SPT	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	**10**	< 1.0	< 1.0	< 1.0	< 1.0	**2.4**	< 0.50	< 1.0	< 3.0
MW-15	05/08/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	**7.8**	< 0.50	< 0.50	NA
MW-15	10/25/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-15	04/18/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-15	04/18/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-15	11/21/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	< 0.50	NA
MW-15	06/11/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-15	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	NA
MW-15	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-15	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	NA
MW-15	06/17/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	**5.1**	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-15	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.6**	**10**	< 0.50	NA
MW-15	12/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.7**	**11**	< 0.50	NA
MW-15	03/15/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5**	**9.4**	< 0.50	NA
MW-15	03/15/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4**	**7.5**	< 0.50	NA
MW-15	06/23/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	**11**	< 0.50	NA
MW-15	09/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**13**	< 0.50	NA
MW-15	12/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**9.2**	< 0.50	NA
MW-15	03/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**11**	< 0.50	NA
MW-15	06/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.7**	**10**	< 0.50	NA
MW-15	09/29/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	NA
MW-1500	09/29/06	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	**12**	< 0.50	NA
MW-15	12/19/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.9**	**8.0**	< 0.50	< 2.0
MW-15	03/15/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	**5.8**	< 0.50	< 2.0
MW-15	06/22/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	**12**	< 0.50	< 2.0
MW-15	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	**5.9**	< 0.50	< 2.0
MW-1500	09/26/07	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**6.6**	< 0.50	< 2.0
MW-15	09/26/07	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**3**	**5**	< 1	< 1
MW-15	12/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	**7.2**	< 0.50	< 2.0
MW-15	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	**5.5**	< 0.50	< 2.0
MW-15	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**5.8**	< 0.50	< 2.0
MW-15	09/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.7**	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**3.3**	< 0.50	< 2.0
MW-15	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	**1.9**	< 0.50	NA
MW-15	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**2.6**	< 0.50	NA
MW-15	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	**1.9**	< 0.50	NA
MW-15	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.4**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	**2.1**	< 0.50	NA
MW-15	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.50	< 0.50	< 0.50	< 0.50	**0.94**	**2.0**	< 0.50	NA
MW-15	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.73**	**1.6**	< 0.50	NA
MW-15	06/11/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 2.0
MW-15	09/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	NA
MW-15	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**1.7**	< 0.50	NA
MW-15	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	< 0.50	< 0.50	< 0.50	**3.4**	**6.8**	< 0.50	NA
MW-15	08/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	**7.7**	< 0.50	NA
MW-15	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	**9.1**	< 0.50	NA
MW-15 Historical Range* **			< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 12	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - < 5.0	< 0.50 - 7.8	< 0.50 - 20	< 0.50 - < 5.0	< 0.50 - < 2.0
MW-16[a]	11/05/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**317**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16[a]	11/05/99	SPT	< 1.0	< 1.0	< 1.0	**3.6**	< 1.0	**510**	< 1.0	< 1.0	**5**	< 1.0	< 1.0	< 1.0	< 1.0	NA
MW-16	11/23/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**73**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16[b]	11/23/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**99**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16	12/07/99	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**49**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16	12/07/99	SPT	< 2	< 5.0	< 5.0	< 2	< 5.0	**44**	< 2	< 2	< 2	< 2	< 2	< 5.0	< 5.0	NA
MW-16	02/18/00	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**238**	< 5.0	< 5.0	**11**	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-1600	02/18/00	FD	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**264**	< 5.0	< 5.0	**10**	< 5.0	< 5.0	< 5.0	< 5.0	NA
MW-16	07/05/00	ORG	< 0.50	< 0.50	**0.59**	**9.4**	**1.5**	**1,100 E**	< 0.50	**2**	**28 E**	**4.3**	**2.2**	< 0.50	< 0.50	**133**
MW-1600	07/05/00	FD	**0.54**	< 0.50	**0.56**	**9.2**	**1.5**	**1,100 E**	< 0.50	**1.7**	**26 E**	**4**	**2**	< 0.50	< 0.50	**77**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-16	07/05/00	SPT	NA	**0.8**	**0.8**	**13.4**	**1.9**	**2,400 E**	NA	**2**	**41.5 E**	**2.8**	**2.5**	< 0.50	< 0.50	**63.05**
MW-1600	05/10/01	FD	< 5.0	< 5.0	< 5.0	**12**	**2 J**	**870**	< 5.0	**2 J**	**20**	**3 J**	**2 J**	< 5.0	< 5.0	**174 E**
MW-16	05/10/01	ORG	< 5.0	< 5.0	**0.5 J**	**11**	**2 J**	**790**	< 5.0	**0.9 J**	**18**	**3 J**	**1 J**	< 5.0	< 5.0	**165 E**
MW-16	05/10/01	SPT	< 5.0	< 5.0	< 5.0	**9**	< 5.0	**940**	< 5.0	< 5.0	**20**	< 5.0	< 5.0	< 5.0	< 5.0	**270 E**
MW-16	10/23/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**88**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0
MW-16	10/23/01	SPT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**99**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2**
MW-16	04/16/02	ORG	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**500**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**190**
MW-1600	04/16/02	FD	< 5.0	< 5.0	< 5.0	**6**	< 5.0	**420**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**190**
MW-16	04/16/02	SPT	< 3.0	< 3.0	< 3.0	**5**	< 3.0	**350**	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	**281**
MW-16	11/20/02	ORG	< 2.5	< 2.5	< 2.5	**7.1**	< 2.5	**440**	< 2.5	< 2.5	**3.6**	**3.7**	< 2.5	< 2.5	< 2.5	**420**
MW-16	06/11/03	ORG	< 0.50	< 0.50	< 0.50	**4.1**	**1.1**	**390**	< 0.50	**0.72**	**1.1**	**2.3**	**1.0**	< 0.50	< 0.50	**230**
MW-16	09/24/03	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	**12**
MW-16	12/17/03	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**240**	< 0.50	**0.58**	< 0.50	**1.4**	**1.1**	< 0.50	< 0.50	**45**
MW-16	12/17/03	SPT	< 1.0	< 1.0	< 1.0	**3**	< 1.0	**200**	< 1.0	< 1.0	< 1.0	**1**	< 1.0	< 1.0	< 1.0	**100**
MW-16	03/31/04	ORG	< 0.50	< 0.50	< 0.50	**8.2**	< 0.50	**590**	< 0.50	**1.9**	**1.8**	**5.6**	**1.9**	< 0.50	< 0.50	**180**
MW-1600	03/31/04	FD	< 0.50	< 0.50	< 0.50	**8.3**	< 0.50	**590**	< 0.50	**1.9**	**1.8**	**5.6**	**1.8**	< 0.50	< 0.50	**180**
MW-16	06/18/04	ORG	< 0.50	< 0.50	**0.98 U**	**14**	< 0.50	**870**	**0.5**	**2.7**	**2.6**	**10**	**2.8**	< 0.50	< 0.50	**400**
MW-16	09/22/04	ORG	< 0.50	< 0.50	< 0.50	**2**	< 0.50	**260**	< 0.50	< 0.50	< 0.50	**0.51**	**1**	< 0.50	< 0.50	**11**
MW-16	12/10/04	ORG	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	**900**	< 0.50	**0.61**	< 0.50	**1**	**1.8**	< 0.50	< 0.50	**26**
MW-16	03/17/05	ORG	< 0.50	**0.58**	**1.1**	**18**	**4.5**	**1,900**	**0.57**	**2.9**	**2**	**10**	**3.7**	< 0.50	< 0.50	**250**
MW-1600	03/17/05	FD	< 0.50	**0.58**	**1.1**	**17**	**4.2**	**1,400**	**0.51**	**2.7**	**1.9**	**9.8**	**3.6**	< 0.50	< 0.50	**290**
MW-16	06/24/05	ORG	< 0.50	< 0.50	< 0.50	**6.9**	**1.7**	**710**	< 0.50	**1.3**	< 0.50	**4.2**	**2.3**	< 0.50	< 0.50	**110**
MW-16	09/22/05	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**320**	< 0.50	< 0.50	< 0.50	**0.88**	**1.7**	< 0.50	< 0.50	< 2.0
MW-16	12/21/05	ORG	< 0.50	< 0.50	< 0.50	**4.3**	**1.2**	**370**	< 0.50	**1.1**	< 0.50	**2.2**	**1.2**	< 0.50	< 0.50	**190**
MW-1600	12/21/05	FD	< 0.50	< 0.50	< 0.50	**3.8**	**1.1**	**320**	< 0.50	**0.99**	< 0.50	**1.9**	**1.1**	< 0.50	< 0.50	**180**
MW-16	03/22/06	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**1.1**	**210**	< 0.50	**0.70**	< 0.50	**1.4**	**0.63**	< 0.50	< 0.50	**110**
MW-16	06/22/06	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.85**	**240**	< 0.50	**0.95**	< 0.50	**1.7**	**0.86**	< 0.50	< 0.50	**140**
MW-16	09/28/06	ORG	< 0.50	< 0.50	< 0.50	**2.6**	< 0.5	**280**	< 0.50	**0.51**	< 0.50	**0.93**	**1.4**	< 0.50	< 0.50	**130**
MW-16	12/15/06	ORG	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**220**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**64**
MW-16	03/14/07	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**270**	< 0.50	< 0.50	< 0.50	**0.91**	**2**	< 0.50	< 0.50	**54**
MW-16	03/14/07	SPT	< 2	< 2	< 2	**2**	< 2	**270**	< 2	< 2	< 2	< 2	< 2	< 2	< 2	**71**
MW-16	06/20/07	ORG	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**140**	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	**25**
MW-16	09/27/07	ORG	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	**330**	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	**14**
MW-16	12/13/07	ORG	< 0.50	< 0.50	< 0.50	**2.7**	< 0.50	**320**	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	< 0.50	< 0.50	**17**
MW-16	03/19/08	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**330**	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	**30 U**
MW-16	06/24/08	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**480**	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	**13**
MW-16	09/25/08	ORG	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	**820**	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	**19 B**
MW-1600	09/25/08	FD	< 0.50	< 0.50	< 0.50	**4.8**	< 0.50	**800**	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 0.50	**21 B**
MW-16	09/25/08	SPT	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	**880**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**26**
MW-16	12/19/08	ORG	< 2.5	< 2.5	< 2.5	**5.2**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**27**
MW-1600	12/19/08	FD	< 2.5	< 2.5	< 2.5	**5.4**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**29**
MW-16	03/17/09	ORG	< 5.0	< 5.0	< 5.0	**8.9**	< 5.0	**1,500**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**65**
MW-1600	03/17/09	FD	< 5.0	< 5.0	< 5.0	**9.1**	< 5.0	**1,500**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**62**
MW-16	06/24/09	ORG	< 2.5	< 2.5	< 2.5	**6.1**	< 2.5	**790**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**360**
MW-16	09/02/09	ORG	< 2.5	< 2.5	< 2.5	**7.0**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**73**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-16	12/09/09	ORG	< 2.5	< 2.5	< 2.5	**5.5**	< 2.5	**910**	< 2.5	< 2.5	< 2.5	< 2.5	**3.0**	< 2.5	< 2.5	**100**
MW-16	03/03/10	ORG	< 1.0	< 1.0	< 1.0	**4.8**	**1.5**	**590**	< 1.0	< 1.0	< 1.0	**2.1**	**4.3**	< 1.0	< 1.0	**440**
MW-16	06/11/10	ORG	< 1.0	< 1.0	< 1.0	**4.6**	< 1.0	**560**	< 1.0	< 1.0	< 1.0	**1.3**	**4.5**	< 1.0	< 1.0	**180**
MW-16	06/11/10	SPT	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	**620**	< 1.0	< 1.0	< 1.0	**1**	**4**	< 1.0	< 1.0	**210**
MW-16	09/09/10	ORG	< 1.0	< 1.0	< 1.0	**3.1**	< 1.0	**540**	< 1.0	< 1.0	< 1.0	< 1.0	**4.9**	< 1.0	< 1.0	**45**
MW-16	12/09/10	ORG	< 1.0	< 1.0	< 1.0	**3.0**	< 1.0	**630**	< 1.0	< 1.0	< 1.0	< 1.0	**4.0**	< 1.0	< 1.0	**31**
MW-16	03/28/11	ORG	< 1.0	< 1.0	< 1.0	**7.8**	**1.7**	**680**	< 1.0	**1.5**	**3.6**	< 1.0	**4.1**	< 1.0	< 1.0	**99**
MW-16	08/05/11	ORG	< 1.0	< 1.0	< 1.0	**8.9**	**1.5**	**910**	< 1.0	**1.1**	**3.6**	**2.9**	**5.3**	< 1.0	< 1.0	**260**
MW-16	02/07/12	ORG	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	**95**	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	**44**
MW-16 Historical Range* **			< 0.50 - < 5.0	< 0.50 - 0.58	< 0.50 - 1.1	< 0.50 - 18	< 0.50 - 4.5	49 - 1,900 E	< 0.50 - 0.57	< 0.50 - 2.9	< 0.50 - 28 E	< 0.50 - 10	< 0.50 - 4.9	< 0.50 - < 5.0	< 0.50 - < 5.0	< 2.0 - 440
MW-17	06/15/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	06/15/00	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0
MW-17	07/06/00	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	05/08/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	10/22/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-1700	10/22/01	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-17	04/16/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-17	04/16/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-17	11/20/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-17	06/09/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-17	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/16/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
MW-17	06/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-17 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - < 3.0
MW-18	06/15/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-1800	06/15/00	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	< 0.50	NA
MW-18	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 3.0
MW-18	05/07/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	NA
MW-18	10/23/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-18	04/16/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.5

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-18	04/16/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-18	11/19/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.5
MW-18	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.5
MW-18	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 2.0
MW-18	06/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 2.0
MW-18	12/09/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 2.0
MW-18	06/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 2.0
MW-18	12/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 2.0
MW-18	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 2.0
MW-18	12/15/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 2.0
MW-18	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 2.0
MW-18	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-18	06/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 2.0
MW-18	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	**6.9**
MW-18	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	**4.6**
MW-1800	06/26/08	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	**5.0**
MW-18	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	**7.7 E**
MW-1800	12/10/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	**7.0 E**
MW-18	12/10/09	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**3**	< 1	**1 E**
MW-18	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**	< 0.50	< 2.0
MW-18	12/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	< 2.0
MW-18	08/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	< 0.50	< 0.20
MW-18	02/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.20
MW-18 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 6.3	< 0.50	< 0.20 - 7.7 E
MW-19	06/14/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	06/14/00	SPT	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	NA
MW-19	07/06/00	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 3.0
MW-19	05/08/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	NA
MW-19	10/22/01	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	04/16/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	04/16/02	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-19	11/20/02	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19	06/10/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-19	12/16/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/16/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/09/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)												Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-19	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-19	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-19 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 0.64	< 0.50	< 0.50 - < 3.0
MW-20	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**82**	< 0.50	< 0.50	**0.63**	< 0.50	< 0.50	**0.58**	< 0.50	< 2.2
MW-20	10/08/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**68**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**44**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/29/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	06/24/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	06/21/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	06/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/18/08	ORG	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**
MW-20	06/25/09	ORG	< 0.50	< 0.50	**0.64**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2000	06/25/09	FD	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/08/09	ORG	< 0.50	< 0.50	**0.78**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
MW-20	06/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	12/08/10	ORG	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-20	08/05/11	ORG	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**
MW-20	02/07/12	ORG	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	**2.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
Historical High/Low																**LOW**
MW-20 Historical Range* **			< 0.50	< 0.50	< 0.50 - 0.78	< 0.50	< 0.50	< 0.50 - 82	< 0.50	< 0.50	< 0.50 - 0.63	< 0.50	< 0.50	< 0.50 - 0.58	< 0.50	< 0.50 - 3.9
MW-21-200	7/14/2003	ORG	< 0.50	< 0.50	< 0.50	**4.4**	< 0.50	**300**	< 0.50	< 0.50	< 0.50	**0.99**	**0.96**	< 0.50	< 0.50	**43**
MW-21	09/23/03	ORG	< 0.50	**0.51**	**2.2**	**26**	< 0.50	**1,300**	**1.3**	**4.3**	**1.1**	**11**	**29**	< 0.50	< 0.50	**160**
MW-2100	09/23/03	FD	< 0.50	**0.53**	**2.4**	**26**	< 0.50	**1,700**	**1.2**	**4.7**	**1.1**	**12**	**29**	< 0.50	< 0.50	**160**
MW-21	09/23/03	SPT	< 1.0	< 1.0	**2**	**24**	**3 E**	**1,400**	**1**	**3**	< 1.0	**11**	**27**	< 1.0	< 1.0	**340**
MW-21	10/08/03	ORG	< 25	< 25	< 25	< 25	< 25	**1,600**	< 25	< 25	< 25	< 25	**30**	< 25	< 25	**160**
MW-21	12/17/03	ORG	< 0.50	**1.8**	**3.9**	**62**	**6.8**	**3,500**	**2.3**	**12**	**1.6**	**20**	**43**	< 0.50	< 0.50	**150**
MW-2100	12/17/03	FD	< 0.50	**1.8**	**4.1**	**64**	**7**	**3,500**	**2.4**	**14**	**1.7**	**21**	**45**	< 0.50	< 0.50	**150**
MW-21	12/17/03	SPT	< 1.0	**1**	**4**	**58**	**6**	**2,800**	**2**	**9**	**1**	**20**	**40**	< 1.0	< 1.0	**290**
MW-21	03/31/04	ORG	< 5.0	< 5.0	< 5.0	**30**	< 5.0	**2,200**	< 5.0	**8.1**	< 5.0	**8.9**	**23**	< 5.0	< 5.0	**64 E**
MW-21	03/31/04	SPT	< 1.0	< 1.0	< 1.0	**30**	< 1.0	**2,100**	< 1.0	< 1.0	< 1.0	< 1.0	**20**	< 1.0	< 1.0	**140 E**
MW-21	06/18/04	ORG	< 5.0	< 5.0	< 5.0	**23**	< 5.0	**1,600**	< 5.0	**6**	< 5.0	**6.6**	**22**	< 5.0	< 5.0	**40**
MW-21	09/22/04	ORG	< 5.0	< 5.0	< 5.0	**7.5**	< 5.0	**530**	< 5.0	< 5.0	< 5.0	< 5.0	**22**	< 5.0	< 5.0	**13**
MW-21	12/10/04	ORG	< 5.0	< 5.0	< 5.0	**26**	< 5.0	**1,700**	< 5.0	**5.3**	< 5.0	**8.8**	**30**	< 5.0	< 5.0	**35**
MW-21	03/17/05	ORG	< 0.50	**1.9**	**4.6**	**71**	**8.9**	**4,600**	**2.4**	**12**	**2.0**	**27**	**46**	**0.53**	< 0.50	**300**
MW-2100	03/17/05	FD	< 0.50	**1.8**	**4.3**	**66**	**8.7**	**4,600**	**2.3**	**12**	**1.9**	**27**	**44**	< 0.50	< 0.50	**330**
MW-21	06/22/05	ORG	< 0.50	**1.2**	**2.9**	**42**	**5.9**	**3,000**	**1.9**	**8.2**	< 0.50	**19**	**37**	< 0.50	< 0.50	**210 E**
MW-21	06/22/05	SPT	< 1.0	**1.1**	**2.9**	**42**	**6.2**	**2,400**	**1.7**	**7.2**	**1.2**	**18**	**35**	< 1.0	< 1.0	**1,100 JE**
MW-21	09/22/05	ORG	< 0.50	**0.64**	**1.8**	**26**	**4.4**	**1,700**	**1.4**	**4**	< 0.50	**12**	**33**	< 0.50	< 0.50	**250**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-21	12/19/05	ORG	< 0.50	< 0.50	**2.8**	**31**	< 0.50	**4,100**	< 0.50	**7.4**	< 0.50	**10**	**18**	< 0.50	< 0.50	**430**
MW-21	03/23/06	ORG	< 5.0	< 5.0	< 5.0	**52**	< 5.0	**4,000**	< 5.0	**11**	< 5.0	**14**	**30**	< 5.0	< 5.0	**240**
MW-21	03/23/06	SPT	< 0.50	< 3.00	< 3.00	**40**	< 3.00	**2,900**	< 3.00	< 3.00	< 3.00	< 3.00	**30**	< 3.00	< 3.00	**250**
MW-21	06/22/06	ORG	< 0.50	**0.89**	**1.6**	**22**	**2.3**	**2,000**	**1.2**	**8.5**	< 0.50	**6.9**	**31**	< 0.50	< 0.50	**120**
MW-21	06/22/06	SPT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**150**
MW-21	09/27/06	ORG	< 2.5	< 2.5	< 2.5	**17**	< 2.5	**1,400**	< 2.5	**3.3**	< 2.5	**4.2**	**30**	< 2.5	< 2.5	**1,100**
MW-21	12/11/06	ORG	< 0.50	**0.53**	**1.2**	**16**	**2**	**1,200**	**1.4**	**3.2**	< 0.50	**5.5**	**31**	< 0.50	< 0.50	**150**
MW-21	12/11/06	SPT	< 7	< 7	< 7	**10 E**	< 7	**1,000**	< 7	< 7	< 7	< 7	**30**	< 7	< 7	**180**
MW-21	03/14/07	ORG	< 2.5	< 2.5	< 2.5	**12 E**	**3.2**	**1,400**	< 2.5	**4.4**	< 2.5	**8.2**	**32**	< 2.5	< 2.5	**330**
MW-2100	03/14/07	FD	< 2.5	< 2.5	< 2.5	**18 E**	**3.2**	**1,400**	< 2.5	**4.3**	< 2.5	**8.6**	**33**	< 2.5	< 2.5	**320**
MW-21	03/14/07	SPT	< 1.0	< 1.0	< 1.0	**20 E**	< 1.0	**1,500**	< 1.0	< 1.0	< 1.0	< 1.0	**30**	< 1.0	< 1.0	**450**
MW-21	06/20/07	ORG	< 1.0	< 1.0	< 1.0	**19**	< 1.0	**1,400**	< 1.0	< 1.0	< 1.0	< 1.0	**35**	< 1.0	< 1.0	**240**
MW-21	09/27/07	ORG	< 0.50	< 0.50	< 0.50	**5.6**	**0.72**	**490**	**1.8**	**1.2**	< 0.50	**2.0**	**36**	< 0.50	< 0.50	**51**
MW-21	12/13/07	ORG	< 0.50	< 0.50	**0.50 U**	**4.8**	< 0.50	**320**	**1.8**	**0.96**	< 0.50	**1.4**	**41**	< 0.50	< 0.50	**47**
MW-2100	12/13/07	FD	< 0.50	< 0.50	**0.50 U**	**5.0**	< 0.50	**620**	**1.7**	**1.0**	< 0.50	**1.4**	**42**	< 0.50	< 0.50	**49**
MW-21	12/13/07	SPT	< 5	< 5	< 5	< 5	< 5	**480**	< 5	< 5	< 5	< 5	**40**	< 5	< 5	**54**
MW-21	06/25/08	ORG	< 5	< 5	< 5	**60**	**6.9**	**4,900**	< 5	**11**	< 5	**20**	**34**	< 5	< 5	**370**
MW-2100	06/25/08	FD	< 5	< 5	< 5	**60**	**7.0**	**5,100**	< 5	**11**	< 5	**20**	**34**	< 5	< 5	**380**
MW-21	06/25/08	SPT	< 5	< 5	< 5	**50**	**6.0**	**3,500**	< 5	**10**	< 5	**20**	**30**	< 5	< 5	**440**
MW-21	07/08/08	ORG	< 10	< 10	< 10	**47**	< 10	**3,500**	< 10	**11**	< 10	**16**	**26**	< 10	< 10	**410**
MW-21	07/09/08	ORG	< 10	< 10	< 10	**54**	< 10	**4,200**	< 10	**10**	< 10	**17**	**25**	< 10	< 10	**360**
MW-21	07/10/08	ORG	< 5	< 5	< 5	**38**	**5.2**	**3,800**	< 5	**12**	< 5	**13**	**23**	< 5	< 5	**330**
MW-21	07/15/08	ORG	< 5	< 5	< 5	**42**	< 5	**3,500**	< 5	**12**	< 5	**13**	**30**	< 5	< 5	**290**
MW-21	07/16/08	ORG	< 5	< 5	< 5	**47**	**5.5**	**4,800**	< 5	**9.7**	< 5	**14**	**26**	< 5	< 5	**310**
MW-21	07/23/08	ORG	< 10	< 10	< 10	**40**	< 10	**3,500**	< 10	< 10	< 10	**13**	**24**	< 10	< 10	**220**
MW-21	07/30/08	ORG	< 10	< 10	< 10	**41**	< 10	**3,400**	< 10	< 10	< 10	**10**	**20**	< 10	< 10	**230**
MW-21	08/06/08	ORG	< 5	< 5	< 5	**32**	< 5	**1,500**	< 5	**7.0**	< 5	**7.7**	**19**	< 5	< 5	**230**
MW-21	08/25/08	ORG	< 5	< 5	< 5	**21**	< 5	**1,800**	< 5	**5.1**	< 5	**6.3**	**16**	< 5	< 5	**150**
MW-21	09/24/08	ORG	< 2.5	< 2.5	< 2.5	**15**	< 2.5	**1,200**	< 2.5	**3.4**	< 2.5	**4.8**	**16**	< 2.5	< 2.5	**100**
MW-21	10/22/08	ORG	< 2.5	< 2.5	< 2.5	**13**	< 2.5	**1,200**	< 2.5	**3.2**	< 2.5	**3.0**	**14**	< 2.5	< 2.5	**95**
MW-21	11/26/08	ORG	< 2.5	< 2.5	< 2.5	**11**	< 2.5	**1,100**	< 2.5	**2.6**	< 2.5	**2.5**	**12**	< 2.5	< 2.5	**74**
MW-21	02/25/09	ORG	< 2.5	< 2.5	< 2.5	**7**	< 2.5	**720**	< 2.5	< 2.5	< 2.5	< 2.5	**12**	< 2.5	< 2.5	**83**
MW-21	03/18/09	ORG	< 2.5	< 2.5	< 2.5	**7.7**	< 2.5	**900**	< 2.5	< 2.5	< 2.5	**2.5**	**11**	< 2.5	< 2.5	**54**
MW-21	04/29/09	ORG	< 2.5	< 2.5	< 2.5	**7.8**	< 2.5	**860**	< 2.5	< 2.5	< 2.5	< 2.5	**14**	< 2.5	< 2.5	**65**
MW-21	05/27/09	ORG	< 2.5	< 2.5	< 2.5	**8.4**	< 2.5	**940**	< 2.5	< 2.5	< 2.5	**2.5**	**14**	< 2.5	< 2.5	**71**
MW-21	06/29/09	ORG	< 0.5	< 0.5	**0.64**	**7.4**	**0.81**	**860**	**0.63**	**2.1**	< 0.5	**2.1**	**17**	< 0.5	< 0.5	**68**
MW-21	07/22/09	ORG	< 1.0	< 1.0	< 1.0	**8.4**	< 1.0	**870**	**1.0**	**1.6**	< 1.0	**1.9**	**16**	< 1.0	< 1.0	**65**
MW-21	08/14/09	ORG	< 2.5	< 2.5	< 2.5	**8.8**	< 2.5	**900**	< 2.5	< 2.5	< 2.5	< 2.5	**18**	< 2.5	< 2.5	**72**
MW-21	09/11/09	ORG	< 2.5	< 2.5	< 2.5	**8.3**	< 2.5	**1,100**	< 2.5	< 2.5	< 2.5	< 2.5	**14**	< 2.5	< 2.5	**63**
MW-21	10/08/09	ORG	< 2.5	< 2.5	< 2.5	**9.2**	< 2.5	**830**	< 2.5	< 2.5	< 2.5	< 2.5	**19**	< 2.5	< 2.5	**76**
MW-21	12/09/09	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**200**	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	**11**
MW-21	03/05/10	ORG	< 1.0	< 1.0	< 1.0	**2.9**	< 1.0	**370**	< 1.0	< 1.0	< 1.0	< 1.0	**14**	< 1.0	< 1.0	**21**
MW-21	06/11/10	ORG	< 2.0	< 2.0	< 2.0	**8.6**	< 2.0	**800**	< 2.0	< 2.0	< 2.0	< 2.0	**22**	< 2.0	< 2.0	**40**
MW-21	06/11/10	SPT	< 1	< 1	< 1	**7**	< 1	**850**	< 1	**1**	< 1	**2**	**21**	< 1	< 1	**47**
MW-21	09/08/10	ORG	< 2.0	< 2.0	< 2.0	**12**	< 2.0	**1,000**	< 2.0	< 2.0	< 2.0	< 2.0	**21**	< 2.0	< 2.0	**74**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-21	12/06/10	ORG	< 5.0	< 5.0	< 5.0	**25**	< 5.0	**2,300**	< 5.0	< 5.0	< 5.0	**7.6**	**23**	< 5.0	< 5.0	**250**
MW-21	12/06/10	SPT	< 5	< 5	< 5	**10**	< 5	**1,600**	< 5	< 5	**5**	< 5	**10**	< 5	< 5	**360**
MW-21	03/24/11	ORG	< 5.0	< 5.0	< 5.0	**38**	**5.7**	**2,800**	< 5.0	**8.7**	< 5.0	**13**	**23**	< 5.0	< 5.0	**93 E**
MW-21	03/24/11	SPT	< 1	**1**	**2**	**33**	**4**	**2,400**	**2**	**6**	< 1	**13**	**18**	**2**	< 1	**560 E**
MW-21	06/23/11	ORG	< 5.0	< 5.0	< 5.0	**33**	**5.0**	**2,700**	< 5.0	**5.8**	< 5.0	**12**	**24**	< 5.0	< 5.0	**400**
MW-21	06/23/11	SPT	< 1	< 1	**2**	**27**	**4**	**2,300**	**1**	**5**	< 1	**10**	**20**	< 1	< 1	**450**
MW-21	08/02/11	ORG	< 5.0	< 5.0	< 5.0	**34**	< 5.0	**2,400**	< 5.0	**5.6**	< 5.0	**11 E**	**24 E**	< 5.0	< 5.0	**360 E**
MW-2100	08/02/11	FD	< 2.5	< 2.5	< 2.5	**34**	**4.4**	**2,000**	< 2.5	**5.4**	< 2.5	**11 E**	**23 E**	< 2.5	< 2.5	**340 E**
MW-21	08/02/11	SPT	< 1.0	< 1.0	**2**	**22**	**3**	**1,800**	< 1.0	**4**	< 1.0	**8 E**	**17 E**	< 1.0	< 1.0	**430**
MW-21	11/01/11	ORG	< 2.5	< 2.5	< 2.5	**29**	**4.9**	**1,600**	< 2.5	**5.6**	< 2.5	**11**	**22**	< 2.5	< 2.5	**390**
MW-21	12/07/11	ORG	< 10	< 10	< 10	**43**	< 10	**3,200**	< 10	< 10	< 10	< 10	**20**	< 10	< 10	**450**
MW-21	01/06/12	ORG	< 10	< 10	< 10	**15**	< 10	**1,400**	< 10	< 10	< 10	< 10	**13**	< 10	< 10	**120**
MW-21	02/08/12	ORG	< 4.0	< 4.0	< 4.0	**8.5**	< 4.0	**520**	< 4.0	< 4.0	< 4.0	< 4.0	**11**	< 4.0	< 4.0	**33**
MW-21	03/09/12	ORG	< 4.0	< 4.0	< 4.0	**8.6**	< 4.0	**860**	< 4.0	< 4.0	< 4.0	< 4.0	**14**	< 4.0	< 4.0	**61**
MW-21 Historical Range* **			< 0.50 - < 25	< 0.50 - 1.9	< 0.50 - 4.6	< 0.50 - 71	< 0.50 - 8.9	200 - 4,900	< 0.50 - 2.4	< 0.50 - 12	< 0.50 - 2.0	< 0.50 - 27	< 0.50 - 46	< 0.50 - 0.53	< 0.50 - < 10	11 - 1,100
MW-22-203	07/28/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-22	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-22	10/08/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-22	12/15/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/30/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/14/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/14/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/26/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/22/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-22	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-22	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-22 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5 - < 2.0
MW-23-199	08/12/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5
MW-23	09/23/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-23	10/08/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-23	12/15/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/29/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-23	09/20/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/14/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/26/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/24/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-23 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5 - < 2.0
MW-24	09/23/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2400	09/23/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/23/04	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0
MW-24	10/19/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-2400	12/07/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/14/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/26/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/13/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**
MW-24	06/20/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2400	06/20/07	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/20/07	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-24	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/11/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/16/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/24/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-24	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**
MW-24	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-24 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - 2.7
MW-26A	10/20/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26A	11/10/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26A	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/08/04	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/27/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-26A	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/18/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A	03/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26B	10/20/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26B	11/10/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26B	12/08/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/08/04	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/27/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/18/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/10/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/18/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B	03/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26B Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-26C	10/19/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	11/10/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/07/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-2600C	12/07/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-26C	03/16/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
MW-26C	06/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/21/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/18/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	03/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/20/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/27/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/12/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/19/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2600C	06/19/07	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-26C	06/19/07	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/25/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	12/11/07	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	< 0.50	< 0.50	**57**
MW-26C	12/20/07	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.72**	< 0.50	< 0.50	< 0.50	**55 E**
MW-2600C	12/20/07	FD	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 0.50	< 0.50	**34 U**
MW-26C	12/20/07	SPT	< 0.50	< 0.50	< 0.50	**2**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	**0.8**	< 0.50	< 0.50	< 0.50	**76 E**
MW-26C	01/21/08	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**110**	< 0.50	< 0.50	< 0.50	**0.77**	< 0.50	< 0.50	< 0.50	**75**
MW-26C	02/21/08	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**71**	< 0.50	**0.79**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**
MW-26C	03/19/08	ORG	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	**46**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**37 E**
MW-2600C	03/19/08	FD	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	**46**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31 U**
MW-26C	03/19/08	SPT	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**44**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22 U**
MW-26C	04/21/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
MW-26C	05/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
MW-26C	06/24/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**
MW-26C	07/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**
MW-26C	08/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**
MW-26C	09/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1 BU**
MW-26C	12/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.5**
MW-26C	03/18/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**
MW-26C	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-26C	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 2.0
MW-26C	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	< 2.0
MW-26C	03/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**	**0.91**
MW-26C	06/24/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.9**	< 0.20
MW-26C	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.7**	**0.34**
MW-26C	11/01/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.1**	<0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-26C	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.5**	<0.20
MW-26C Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 1.7	< 0.50	< 0.50 - 120	< 0.50	< 0.50 - 0.79	< 0.50	< 0.50 - 0.77	< 0.50	< 0.50	< 0.50 - 22	< 0.20 - 55 E
MW-27	05/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-2700	05/27/08	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	05/27/08	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-27	06/10/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	06/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	07/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	08/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	09/23/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	06/22/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	12/09/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	12/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-27	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.24**
MW-27	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
Historical High/Low MW-27 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**LOW** <0.20 - 0.24
MW-28	05/16/08	ORG	< 0.50	< 0.50	< 0.50	**0.94**	< 0.50	**76 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
MW-2800	05/16/08	FD	< 0.50	< 0.50	< 0.50	**0.98**	< 0.50	**78 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
MW-28	05/16/08	SPT	< 0.50	< 0.50	< 0.50	**0.5**	< 0.50	**45 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**
MW-28	05/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**
MW-28	06/27/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.3**
MW-28	07/17/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**
MW-28	08/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-28	09/25/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2 BE**
MW-28	12/18/08	ORG	< 0.50	< 0.50	< 0.50	**0.7**	< 0.50	**60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**
MW-28	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**41**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**
MW-28	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.2**
MW-28	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.1**
MW-2800	09/01/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.4**
MW-28	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.5**
MW-28	03/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**
MW-28	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**
MW-2800	06/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**
MW-28	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**
MW-28	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-28	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-28	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.49**
MW-28	08/05/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.53**
MW-28	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.3**
MW-28	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.84**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
Historical High/Low								**LOW**								**LOW**
MW-28 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 0.94	< 0.50	1.1 - 76 E	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.3 - 19
MW-29	08/26/08	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	**0.50**	**0.60**	< 0.50	< 0.50	**54**
MW-2900	08/26/08	FD	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	**0.58**	< 0.50	< 0.50	**55**
MW-29	08/26/08	SPT	< 1	< 1	< 1	**1**	< 1	**120**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**67**
MW-29	09/25/08	ORG	< 0.50	< 0.50	< 0.50	**1.2 E**	< 0.50	**110 E**	< 0.50	< 0.50	< 0.50	< 0.50	**0.74 E**	< 0.50	< 0.50	**26 BE**
MW-2900	09/25/08	FD	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**99**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	**32 BE**
MW-29	09/25/08	SPT	< 1	< 1	< 1	**1**	< 1	**100**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**40 E**
MW-29	12/18/08	ORG	< 1.0	< 1.0	< 1.0	**4.7**	**1.0**	**400**	< 1.0	**1.3**	< 1.0	**1.4**	**4.3**	< 1.0	< 1.0	**98**
MW-2900	12/18/08	FD	< 1.0	< 1.0	< 1.0	**4.5**	**1.0**	**390**	< 1.0	**1.3**	< 1.0	**1.5**	**4.3**	< 1.0	< 1.0	**110**
MW-29	03/17/09	ORG	< 0.50	< 0.50	**0.62**	**5.2**	**1.0**	**530**	< 0.50	**1.5**	< 0.50	**1.9**	**4.0**	**0.81**	< 0.50	**110**
MW-2900	03/17/09	FD	< 0.50	< 0.50	**0.60**	**5.0**	**1.0**	**550**	< 0.50	**1.4**	< 0.50	**1.9**	**4.0**	**0.78**	< 0.50	**100**
MW-29	06/24/09	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.55**	**320**	< 0.50	**1.1**	< 0.50	**0.91**	**3.3**	**0.60**	< 0.50	**84**
MW-29	09/02/09	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.57**	**310**	< 0.50	**0.97**	< 0.50	**0.93**	**3.4**	**0.62**	< 0.50	**71**
MW-2900	09/02/09	FD	< 0.50	< 0.50	< 0.50	**3.0**	**0.64**	**340**	< 0.50	**1.0**	< 0.50	**0.89**	**3.6**	**0.68**	< 0.50	**75**
MW-29	12/10/09	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.50**	**290**	< 0.50	**0.97**	< 0.50	**0.84**	**3.5**	**0.54**	< 0.50	**74**
MW-29	03/04/10	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.52**	**340**	< 0.50	**1.2**	< 0.50	**0.73**	**3.6**	**0.61**	< 0.50	**95**
MW-2900	03/04/10	FD	< 0.50	< 0.50	< 0.50	**3.0**	**0.50**	**320**	< 0.50	**1.1**	< 0.50	**0.64**	**3.9**	**0.58**	< 0.50	**96**
MW-29	06/09/10	ORG	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**300**	< 0.50	**0.85**	< 0.50	**0.73**	**3.2**	**0.65**	< 0.50	**61**
MW-29	09/09/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	**30**
MW-29	12/07/10	ORG	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**200**	< 0.50	**0.71**	< 0.50	**0.55**	**3.2**	< 0.50	< 0.50	**41**
MW-2900	12/07/10	FD	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**220**	< 0.50	**0.71**	< 0.50	**0.53**	**3.1**	< 0.50	< 0.50	**43**
MW-29	03/30/11	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**200**	< 0.50	**0.77**	< 0.50	**0.56**	**3.6**	**0.51**	< 0.50	**29**
MW-29	06/21/11	ORG	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**220**	< 0.50	**0.85**	< 0.50	**0.55**	**4.5**	**0.71**	< 0.50	**30**
MW-29	08/05/11	ORG	< 0.50	< 0.50	**0.63**	**3.6**	**0.55**	**330**	**0.61**	**0.87**	< 0.50	**0.76**	**5.6**	**1.2**	< 0.50	**45 E**
MW-2900	08/05/11	FD	< 0.50	< 0.50	**0.62**	**3.6**	**0.54**	**370**	**0.57**	**0.84**	< 0.50	**0.75**	**5.7**	**1.2**	< 0.50	**54 E**
MW-29	08/05/11	SPT	< 1.0	< 1.0	< 1.0	**2**	< 1.0	**270**	< 1.0	< 1.0	< 1.0	< 1.0	**4**	< 1.0	< 1.0	**82 E**
MW-29	11/03/11	ORG	< 0.50	< 0.50	**0.8**	**7.8**	**1.4**	**804**	**0.6**	**1.3**	< 0.50	**2.3**	**6.0**	**1.0**	< 0.50	**301**
MW-29	02/09/12	ORG	< 5.0	< 5.0	< 5.0	**9.2**	< 5.0	**900 E**	< 5.0	< 5.0	< 5.0	< 5.0	**7.5**	< 5.0	< 5.0	**130 E**
MW-2900	02/09/12	FD	< 5.0	< 5.0	< 5.0	**9.0**	< 5.0	**910 E**	< 5.0	< 5.0	< 5.0	< 5.0	**7.1**	< 5.0	< 5.0	**120 E**
MW-29	02/09/12	SPT	< 1.0	< 1.0	< 1.0	**5**	< 1.0	**380 E**	< 1.0	**1**	**1**	**2**	**4**	**1**	< 1.0	**340 E**
Historical High/Low								**HIGH**								
MW-29 Historical Range* **			< 0.50 - < 1.0	< 0.50 - < 1.0	< 0.50 - 0.8	1 - 7.8	< 0.50 - 1.4	99 - 804	< 0.50 - < 1.0	< 0.50 - 1.5	< 0.50 - < 1.0	< 0.50 - 2.3	0.58 - 6.0	< 0.50 - 1.0	< 0.50 - 1.0	29 - 301
MW-30A	12/18/08	ORG	< 0.50	< 0.50	< 0.50	**2.9**	**0.67**	**270**	< 0.50	**0.58**	< 0.50	**1.1**	**0.72**	< 0.50	< 0.50	**86**
MW-30A	12/18/08	SPT	< 1	< 1	< 1	**3**	< 1	**290**	< 1	< 1	< 1	**1**	< 1	< 1	< 1	**110**
MW-30A	01/07/09	ORG	< 0.50	< 0.50	< 0.50	**2.5**	**0.57**	**270**	< 0.50	**0.52**	< 0.50	**0.95**	**0.52**	< 0.50	< 0.50	**95**
MW-30A	03/17/09	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**140 E**	< 0.50	< 0.50	< 0.50	**0.57**	< 0.50	< 0.50	< 0.50	**53**
MW-30A	03/17/09	SPT	< 1	< 1	< 1	< 1	< 1	**69 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**40**
MW-30A	06/23/09	ORG	< 0.50	< 0.50	< 0.50	**0.89**	< 0.50	**80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**
MW-30A	06/23/09	SPT	< 1	< 1	< 1	< 1	< 1	**79**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**38**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-30A	09/02/09	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**46**
MW-30A	09/02/09	SPT	< 1	< 1	< 1	**1**	< 1	**110**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**54**
MW-30A	12/10/09	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**92**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**36**
MW-30A	03/03/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**85 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**43**
MW-3000A	03/03/10	FD	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**65 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**41**
MW-30A	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**
MW-30A	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**
MW-30A	12/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-30A	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.44**
MW-30A	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.21**
MW-30A	08/05/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.93**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
MW-30A	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.3**
MW-30A	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.66**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-30A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 3	< 0.50 - 0.67	< 0.50 - 290	< 0.50	< 0.50 - 0.58	< 0.50	< 0.50 - 1.1	< 0.50 - 0.72	< 0.50	< 0.50	0.21 - 110
MW-30B	12/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.1**	**1.3**	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 2.0
MW-30B	12/18/08	SPT	< 1	< 1	< 1	< 1	< 1	**4**	**1**	< 1	< 1	< 1	**24**	< 1	< 1	< 1
MW-30B	01/07/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-30B	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**	**2.0**	< 0.50	< 0.50	< 0.50	**35**	< 0.50	< 0.50	**28E**
MW-30B	03/17/09	SPT	< 1	< 1	< 1	< 1	< 1	**5**	**2**	< 1	< 1	< 1	**30**	< 1	< 1	< 1E
MW-30B	06/23/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.91**	< 0.50	< 0.50	< 2.0
MW-30B	06/23/09	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-30B	09/02/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.96**	< 0.50	< 0.50	< 2.0
MW-30B	09/02/09	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-30B	12/10/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	**0.67**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 2.0
MW-3000B	12/10/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	**0.70**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 2.0
MW-30B	12/10/09	SPT	< 1	< 1	< 1	< 1	< 1	**1**	< 1	< 1	< 1	< 1	**10**	< 1	< 1	< 1
MW-30B	03/03/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	**9.4**	< 0.50	< 0.50	< 2.0
MW-30B	06/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**4.3**	< 0.50	< 0.50	< 0.50	**78**	< 0.50	< 0.50	< 2.0
MW-30B	09/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**	**3.4**	< 0.50	< 0.50	< 0.50	**65**	< 0.50	< 0.50	< 2.0
MW-3000B	09/08/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	**3.7**	< 0.50	< 0.50	< 0.50	**70**	< 0.50	< 0.50	< 2.0
MW-30B	12/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.9**	**2.8**	< 0.50	< 0.50	< 0.50	**49**	< 0.50	< 0.50	< 2.0
MW-30B	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**4.3**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	**3.5**	**0.56**
MW-30B	08/05/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18 E**	**5.6**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	**4.5**	< 0.20
MW-3000B	08/05/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19 E**	**5.6**	< 0.50	< 0.50	< 0.50	**87**	< 0.50	**4.7**	< 0.20
MW-30B	08/05/11	SPT	< 1	< 1	< 1	< 1	< 1	**10 E**	**3**	< 1	< 1	< 1	**73**	< 1	**3**	< 1
MW-30B	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13.6**	**4.2**	< 0.50	< 0.50	< 0.50	**80.7**	< 0.50	**3.2**	**0.4**
MW-3000B	11/02/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13.7**	**4.4**	< 0.50	< 0.50	< 0.50	**82.6**	< 0.50	**2.8**	**0.4**
MW-30B	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	**4.2**	< 0.50	< 0.50	< 0.50	**75**	< 0.50	< 0.50	**0.30**
MW-30B	02/09/12	SPT	< 1	< 1	< 1	< 1	< 1	**8**	**3**	< 1	< 1	< 1	**53**	< 1	< 1	< 1
Historical High/Low MW-30B Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 18 E	< 0.50 - 4.3	< 0.50	< 0.50	< 0.50	< 0.50 - 78	< 0.50	< 0.50 - 4.5	**LOW** 0.4 - 28 E
MW-31	10/13/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**74**	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 0.50	< 0.50	< 2.0
MW-3100	10/13/09	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**72**	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-31	11/04/09	ORG	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**290**	**0.77**	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	**4.1**
MW-3100	11/04/09	FD	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**270**	**0.73**	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	**3.9**
MW-31	11/04/09	SPT	< 1	< 1	< 1	**2**	< 1	**270**	< 1	< 1	< 1	< 1	**11**	< 1	< 1	< 4
MW-31	12/10/09	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**240**	**0.73**	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	**2.8**
MW-3100	12/10/09	FD	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**230**	**0.72**	< 0.50	< 0.50	< 0.50	**11**	< 0.50	< 0.50	**2.8**
MW-31	12/10/09	SPT	< 1	< 1	< 1	**1**	< 1	**190**	< 1	< 1	< 1	< 1	**8**	< 1	< 1	**3**
MW-31	03/03/10	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 2.0
MW-31	03/03/10	SPT	< 1	< 1	< 1	< 1	< 1	**87**	< 1	< 1	< 1	< 1	**4**	< 1	< 1	**1**
MW-31	06/09/10	ORG	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	**370**	**1.2**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	**5.3**
MW-3100	06/09/10	FD	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	**360**	**1.1**	< 0.50	< 0.50	< 0.50	**15**	< 0.50	< 0.50	**5.2**
MW-31	06/09/10	SPT	< 1	< 1	< 1	**3**	< 1	**370**	< 1	< 1	< 1	< 1	**15**	< 1	< 1	**7**
MW-31	09/09/10	ORG	< 1.0	< 1.0	< 1.0	**3.6**	< 1.0	**430**	**1.2**	< 1.0	< 1.0	< 1.0	**17**	< 1.0	< 1.0	**5.6**
MW-31	09/09/10	SPT	< 1	< 1	< 1	**3**	< 1	**430**	< 1	< 1	< 1	< 1	**15**	< 1	< 1	**7**
MW-31	12/08/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**68**	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 2.0
MW-31	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**0.57**	**0.25**
MW-3100	03/28/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	**0.52**	**0.25**
MW-31	06/24/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**61**	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	< 0.50	**0.83**	**0.51**
MW-31	08/05/11	ORG	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	**93**	< 0.50	< 0.50	< 0.50	< 0.50	**6.9**	< 0.50	< 0.50	**1.1**
MW-31	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32.6**	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**	< 0.50	**0.6**	< 2.0
MW-31	11/03/11	SPT	< 1	< 1	< 1	< 1	< 1	**28**	< 1	< 1	< 1	< 1	**3**	< 1	< 1	< 1
MW-31	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	< 0.50	< 0.50	< 0.50	< 0.50	**3.8**	< 0.50	**0.52**	< 0.20
Historical High/Low																**LOW**
MW-31 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 3.6	< 0.50	25 - 430	< 0.50 - 1.2	< 0.50	< 0.50	< 0.50	2.2 - 17	< 0.50	< 0.50 - 0.83	0.25 - 7
MW-32A	01/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	01/04/10	DUP	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	01/04/10	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-32A	01/19/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	03/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	09/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32A	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	06/23/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.57**
MW-32A	08/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A	02/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20 - 0.57
MW-32B	01/04/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**	**4.0**	< 0.50	< 0.50	< 0.50	**55**	< 0.50	< 0.50	< 2.0
MW-32B	01/04/10	DUP	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	**4.0**	< 0.50	< 0.50	< 0.50	**57**	< 0.50	< 0.50	**2.0**
MW-32B	01/04/10	SPT	< 1	< 1	< 1	< 1	< 1	**27**	**3**	< 1	< 1	< 1	**44**	< 1	< 1	**3**
MW-32B	01/19/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	**4.2**	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	< 2.0
MW-32B	01/19/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**	**4.2**	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	< 2.0
MW-32B	03/05/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**	**1.9**	< 0.50	< 0.50	< 0.50	**24**	< 0.50	< 0.50	< 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-32B	03/05/10	SPT	< 1	< 1	< 1	< 1	< 1	**15**	**2**	< 1	< 1	< 1	**21**	< 1	< 1	**1**
MW-32B	06/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	**2.3**	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 2.0
MW-3200B	06/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**26**	**3.0**	< 0.50	< 0.50	< 0.50	**33**	< 0.50	< 0.50	< 2.0
MW-32B	09/07/10	ORG	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**58**	**5.7**	< 0.50	< 0.50	< 0.50	**63**	< 0.50	< 0.50	**3.0**
MW-32B	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**44**	**4.2**	< 0.50	< 0.50	< 0.50	**45**	< 0.50	< 0.50	< 2.0
MW-3200B	12/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**46**	**4.3**	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	**2.0**
MW-32B	12/09/10	SPT	< 1	< 1	< 1	< 1	< 1	**27**	**3**	< 1	< 1	< 1	**37**	< 1	< 1	**3**
MW-32B	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**42**	**4.2**	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	**0.49**
MW-32B	06/23/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**	**2.4**	< 0.50	< 0.50	< 0.50	**31**	< 0.50	< 0.50	**1.6**
MW-32B	08/03/11	ORG	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**77**	**5.6**	< 0.50	< 0.50	< 0.50	**54**	< 0.50	< 0.50	**2.5**
MW-32B	11/03/11	ORG	< 0.50	< 0.50	< 0.50	**0.6**	< 0.50	**69.9**	**4.3**	< 0.50	< 0.50	< 0.50	**48.6**	< 0.50	< 0.50	**2.3**
MW-32B	02/07/12	ORG	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	**73**	**4.0**	< 0.50	< 0.50	< 0.50	**44**	< 0.50	< 0.50	**1.5**
MW-3200B	02/07/12	FD	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	**74**	**4.0**	< 0.50	< 0.50	< 0.50	**46**	< 0.50	< 0.50	**1.6**
MW-32B Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 0.70	< 0.50	16 - 77	1.9 - 5.7	< 0.50	< 0.50	< 0.50	24 - 63	< 0.50	< 0.50	0.49 - 3.0
MW-32C	01/05/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	01/05/10	DUP	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1
MW-32C	01/05/10	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 2.0
MW-32C	01/19/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	03/05/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	06/10/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	09/07/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-32C	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	06/23/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**
MW-32C	08/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	11/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C	02/07/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-32C Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - 1.0
MW-33	07/16/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.6**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**1.4**	< 2.0
MW-3300	07/16/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.8**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**1.1**	< 2.0
MW-33	07/16/10	SPT	< 1	< 1	< 1	< 1	< 1	**4**	< 1	< 1	< 1	< 1	**1**	< 1	**1**	< 1
MW-33	07/30/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**	< 0.50	< 0.50	< 0.50	< 0.50	**0.55**	< 0.50	**0.61**	< 2.0
MW-33	09/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	**0.65**	< 2.0
MW-3300	09/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	< 0.50	< 0.50	< 0.50	< 0.50	**0.74**	< 0.50	**0.55**	< 2.0
MW-33	12/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 2.0
MW-3300	12/09/10	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 2.0
MW-33	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.0**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.20
MW-33	06/22/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.4**	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.20
MW-33	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.7**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.20
MW-33	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	**0.5**	< 0.50	< 0.50	< 0.20
MW-33	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-33 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.4 - 12	< 0.50	< 0.50	< 0.50	< 0.50	0.5 - 1.6	< 0.50	< 0.50 - 1.4	< 0.20 - < 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-34A	02/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	**1.7**	< 2.0
MW-3400A	02/25/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**2.0**	< 2.0
MW-34A	02/25/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1**	< 1
MW-34A	03/10/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**1.4**	<0.20
MW-34A	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	**2.8**	<0.20
MW-34A	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	<0.20
MW-34A	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.63**	**0.68**	<0.20
MW-34A	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.20
MW-34A	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.75**	< 0.50	<0.20
MW-34A Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50- 1.6	< 0.50 - 2.8	< 0.20 - < 2.0
MW-34B	02/25/11	ORG	< 1.0	< 1.0	< 1.0	**5.1**	< 1.0	**560**	< 1.0	< 1.0	< 1.0	**1.3**	**1.6**	< 1.0	< 1.0	**75**
MW-3400B	02/25/11	FD	< 1.0	< 1.0	< 1.0	**6.2**	< 1.0	**650**	< 1.0	**1.1**	< 1.0	**1.5**	**1.9**	< 1.0	< 1.0	**61**
MW-34B	02/25/11	SPT	< 1	< 1	< 1	**4**	< 1	**590**	< 1	< 1	< 1	**1**	**1**	< 1	< 1	**78**
MW-34B	03/10/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**4.1**
MW-3400B	03/10/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**	**4.3**
MW-34B	03/10/11	SPT	< 1	< 1	< 1	< 1	< 1	**12 E**	< 1	< 1	< 1	< 1	< 1	< 1	**2**	**6**
MW-34B-1 [(c)]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**28 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	**4.9**
MW-34B-1 [(c)]	03/15/11	SPT	< 1	< 1	< 1	< 1	< 1	**18 E**	< 1	< 1	< 1	< 1	< 1	< 1	**1**	**7**
MW-34B-2 [(d)]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**23**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**NA**
MW-34B-3 [(e)]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	**NA**
MW-34B-4 [(f)]	03/15/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.57**	**5.0**
MW-34B	03/29/11	ORG	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	**27 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	**9.4 E**
MW-3400B	03/29/11	FD	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**37 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**9.4 E**
MW-34B	03/29/11	SPT	< 1	< 1	< 1	< 1	< 1	**31 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**13 E**
MW-34B	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**21 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**8.1**
MW-34B	06/21/11	SPT	< 1	< 1	< 1	< 1	< 1	**10 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**11**
MW-34B	08/04/11	ORG	< 0.50	< 0.50	< 0.50	**4.8**	**0.71**	**410**	< 0.50	< 0.50	< 0.50	**1.2**	**0.65**	< 0.50	**1.5**	**84 E**
MW-34B	11/02/11	ORG	< 0.50	< 0.50	**0.5**	**6.3**	**1.2**	**502**	< 0.50	< 0.50	< 0.50	**2.1**	**0.7**	< 0.50	< 0.50	**196**
MW-34B	11/02/11	SPT	< 1	< 1	< 1	**4**	< 1	**340**	< 1	< 1	**1**	< 1	< 1	< 1	< 1	**220**
MW-34B	02/08/12	ORG	< 2.5	< 2.5	< 2.5	**6.0**	< 2.5	**550 E**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**64 E**
MW-3400B	02/08/12	FD	< 2.5	< 2.5	< 2.5	**6.0**	< 2.5	**570 E**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**66 E**
MW-34B	02/08/12	SPT	< 1	< 1	< 1	**3**	< 1	**250 E**	< 1	< 1	< 1	**1**	< 1	< 1	< 1	**190 E**
MW-34B Historical Range* **			< 0.50 - < 1.0	< 0.50 - < 1.0	< 0.50 - < 1.0	< 0.50 - 6.3	< 0.50 - < 1.0	20 - 560	< 0.50 - < 1.0	< 0.50 - < 1.0	< 0.50 - < 1.0	< 0.50 - 1.3	< 0.50 - 1.6	< 0.50 - < 1.0	< 0.50 - 1.8	4.1 - 196
MW-34C	02/25/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 2.0
MW-3400C	02/25/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.7**	< 2.0
MW-34C	02/25/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-34C	03/10/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.0**	< 0.20
MW-34C	03/29/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.20
MW-34C	03/29/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**3**	< 1
MW-34C	06/21/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.20
MW-34C	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**9.6**	< 0.20
MW-34C	11/02/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-34C Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 9.0	< 0.20 - < 2.0

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)												Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-35A	01/19/11	ORG	< 0.50	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500A	01/19/11	FD	< 0.50	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35A	01/19/11	SPT	< 1	< 1	**50**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35A	02/03/11	ORG	< 0.50	< 0.50	**46 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500A	02/03/11	FD	< 0.50	< 0.50	**49 E**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35A	02/03/11	SPT	< 1	< 1	**33 E**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35A	03/28/11	ORG	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	06/22/11	ORG	< 0.50	< 0.50	**11**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	08/04/11	ORG	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	11/01/11	ORG	< 0.50	< 0.50	**6.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35A	02/08/12	ORG	< 0.50	< 0.50	**4.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
Historical High/Low					**LOW**											
MW-35A Historical Range* **			< 0.50	< 0.50	6.5 - 67	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0
MW-35B	01/19/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500B	01/19/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35B	01/19/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35B	02/03/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500B	02/03/11	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35B	02/03/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35B	03/28/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	06/22/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	11/01/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35B Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0
MW-35C	01/19/11	ORG	< 0.50	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500C	01/19/11	FD	< 0.50	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35C	01/19/11	SPT	< 1	< 1	**87**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35C	02/03/11	ORG	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-3500C	02/03/11	FD	< 0.50	< 0.50	**0.67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
MW-35C	02/03/11	SPT	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
MW-35C	03/28/11	ORG	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-3500C	03/28/11	FD	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	06/22/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	08/04/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	11/01/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
MW-35C Historical Range* **			< 0.50	< 0.50	< 0.50 - 120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 - < 2.0
MW-36	01/13/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.9**	<0.20
MW-3600	01/13/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.0**	<0.20
MW-36	01/13/12	SPT	<1	<1	<1	<1	<1	**2**	<1	<1	<1	<1	<1	<1	**4**	<1
MW-36	01/26/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.3**	<0.20
MW-3600	01/26/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	<0.20

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
MW-36	01/26/12	SPT	<1	<1	<1	<1	<1	**3**	<1	<1	<1	<1	<1	<1	**3**	<1
MW-36	02/08/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	<0.20
MW-3600	02/08/12	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**	<0.20
MW-36	02/08/12	SPT	<1	<1	<1	<1	<1	**2**	<1	<1	<1	<1	<1	<1	**3**	<1
MW-36 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.9 - 5.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.2 - 5.9	<0.20
EW-01	6/22/2005	ORG	< 0.50	< 0.50	**0.67**	**10**	**2.6**	**750**	< 0.50	**2.5**	< 0.50	**6.5**	**2.1**	< 0.50	< 0.50	**140 E**
EW-100	6/22/2005	FD	< 0.50	< 0.50	**0.65**	**11**	**2.6**	**740**	< 0.50	**2.5**	< 0.50	**6.8**	**2.2**	< 0.50	< 0.50	**150 E**
EW-01	6/22/2005	SPT	< 1.0	< 1.0	< 1.0	**10**	**2.5**	**600**	< 1.0	**2.2**	< 1.0	**6.3**	**1.9**	< 1.0	< 1.0	**600 E**
EW-01	09/22/05	ORG	< 0.50	< 0.50	< 0.50	**3**	< 0.50	**210 E**	< 0.50	**0.59**	< 0.50	**1.5**	**0.58**	< 0.50	< 0.50	**25 E**
EW-100	09/22/05	FD	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	**77 E**	< 0.50	**0.53**	< 0.50	**1.5**	**0.53**	< 0.50	< 0.50	**24 E**
EW-01	09/22/05	SPT	< 0.50	< 0.50	< 0.50	**2**	< 0.50	**120 E**	< 0.50	**0.5**	< 0.50	**1**	< 0.50	< 0.50	< 0.50	**73 E**
EW-01	12/19/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.1**
EW-100	12/19/05	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.74**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.5**
EW-01	03/22/06	ORG	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	**83**
EW-100	03/22/06	FD	< 0.50	< 0.50	< 0.50	**2.0**	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	**78**
EW-01	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**
EW-100	06/21/06	FD	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	**5.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**
EW-01	12/11/06	ORG	**2**	< 0.50	< 0.50	**1.6**	< 0.50	**4.3 E**	< 0.50	< 0.50	< 0.50	**0.8**	< 0.50	< 0.50	< 0.50	**42**
EW-01	12/11/06	SPT	**2**	< 0.50	< 0.50	**1**	< 0.50	**68 E**	< 0.50	< 0.50	< 0.50	**0.6**	< 0.50	< 0.50	0.5 U	**48**
EW-01	03/14/07	ORG	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**
EW-100	03/14/07	FD	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	< 0.50	< 0.50	**30**
EW-01	06/22/07	ORG	< 0.50	< 0.50	**0.57**	< 0.50	< 0.50	**24**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**
EW-01	09/27/07	ORG	< 0.50	< 0.50	< 0.50	**3.8**	**0.90**	< 0.50	< 0.50	**0.73**	< 0.50	**2.1**	**0.56**	< 0.50	< 0.50	**110**
EW-01	12/13/07	ORG	< 0.50	**0.53**	**1.2**	**16**	**4.0**	**820**	**0.52**	**3.3**	< 0.50	**10**	**2.8**	< 0.50	< 0.50	**660**
EW-100	12/13/07	FD	< 0.50	**0.55**	**1.1**	**16**	**4.2**	**710**	< 0.50	**3.4**	< 0.50	**9.7**	**2.7**	< 0.50	< 0.50	**650**
EW-01	12/13/07	SPT	< 0.50	< 0.50	**1**	**14**	**3**	**740**	< 0.50	**3**	< 0.50	**8.7**	**3**	< 0.50	< 0.50	**770**
EW-01	06/25/08	ORG	< 0.50	< 0.50	**0.61**	**9.5**	**2.2**	**1,600 E**	< 0.50	**2.6**	< 0.50	**5.7**	**2**	< 0.50	**4.6**	**710**
EW-100	06/25/08	FD	< 1.0	< 1.0	< 1.0	**8.8**	**2.2**	**840 E**	**1.1**	**2.6**	< 1.0	**5.7**	**1.8**	< 1.0	**2.8**	**800**
EW-01	06/25/08	SPT	< 5	< 5	< 5	**8**	< 5	**620 E**	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**530**
EW-01	07/08/08	ORG	< 2.5	< 2.5	< 2.5	**8.5**	< 2.5	**720**	< 2.5	**2.6**	< 2.5	**5.5**	< 2.5	< 2.5	< 2.5	**490**
EW-01	07/09/08	ORG	< 0.50	< 0.50	**0.76**	**9.2**	**1.9**	**820**	< 0.50	**2.2**	< 0.50	**5.0**	**1.9**	< 0.50	< 0.50	**410**
EW-01	07/10/08	ORG	< 0.50	< 0.50	< 0.50	**6.1**	**1.5**	**580**	< 0.50	**2.1**	< 0.50	**3.2**	**1.3**	< 0.50	< 0.50	**340**
EW-01	07/15/08	ORG	< 1.0	< 1.0	< 1.0	**7.0**	**1.8**	**630**	< 1.0	**2.3**	< 1.0	**4.6**	**1.4**	< 1.0	< 1.0	**350**
EW-01	07/16/08	ORG	< 1.0	< 1.0	< 1.0	**7.2**	**1.7**	**1,000**	< 1.0	**1.8**	< 1.0	**3.9**	**1.9**	< 1.0	< 1.0	**320**
EW-01	07/23/08	ORG	< 1.0	< 1.0	< 1.0	**5.2**	**1.2**	**520**	< 1.0	**2.3**	< 1.0	**2.6**	**1.2**	< 1.0	< 1.0	**190**
EW-01	07/30/08	ORG	< 1.0	< 1.0	< 1.0	**5.5**	**1.1**	**360**	< 1.0	**1.2**	< 1.0	**2.6**	**1.0**	< 1.0	< 1.0	**200**
EW-01	08/06/08	ORG	< 1.0	< 1.0	< 1.0	**4.2**	< 1.0	**340**	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0	**190**
EW-01	08/25/08	ORG	< 0.50	< 0.50	< 0.50	**3.0**	**0.62**	**230**	< 0.50	**0.84**	< 0.50	**1.5**	**0.65**	< 0.50	< 0.50	**130**
EW-01	09/24/08	ORG	< 0.50	< 0.50	< 0.50	**2.4**	**0.57**	**180**	< 0.50	**0.94**	< 0.50	**1.2**	**1.3**	< 0.50	< 0.50	**74**
EW-01	10/22/08	ORG	< 0.50	< 0.50	< 0.50	**2.7**	**0.5**	**200**	< 0.50	**0.66**	< 0.50	**1.2**	**0.54**	< 0.50	< 0.50	**120**
EW-01	11/26/08	ORG	< 0.50	< 0.50	< 0.50	**2.9**	**0.65**	**190**	< 0.50	**0.63**	< 0.50	**1.5**	**0.51**	< 0.50	< 0.50	**110**
EW-01	02/25/09	ORG	< 0.50	< 0.50	< 0.50	**4.8**	**0.93**	**360**	< 0.50	< 0.50	< 0.50	**3.0**	**1**	< 0.50	< 0.50	**160**
EW-01	03/18/09	ORG	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	**70**
EW-01	04/29/09	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**150**	< 0.50	**0.60**	< 0.50	**0.86**	< 0.50	< 0.50	< 0.50	**80**
EW-01	05/27/09	ORG	< 0.50	< 0.50	< 0.50	**3.4**	**0.76**	**320**	< 0.50	**0.79**	< 0.50	**1.5**	**0.90**	< 0.50	< 0.50	**150**
EW-01	06/29/09	ORG	< 0.50	< 0.50	< 0.50	**2.2**	**0.53**	**200**	< 0.50	**0.76**	< 0.50	**1.2**	**0.58**	< 0.50	< 0.50	**120**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)													Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-01	07/22/09	ORG	< 0.50	< 0.50	< 0.50	**3.2**	**0.64**	**260**	< 0.50	**0.66**	< 0.50	**1.3**	**0.62**	< 0.50	< 0.50	**120**
EW-01	08/14/09	ORG	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**190**	< 0.50	< 0.50	< 0.50	**0.98**	< 0.50	< 0.50	< 0.50	**81**
EW-01	09/11/09	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.70**	**280**	< 0.50	**0.66**	< 0.50	**1.3**	**0.60**	< 0.50	< 0.50	**120**
EW-01	10/08/09	ORG	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	< 0.50	< 0.50	**87**
EW-01	12/09/09	ORG	< 0.50	< 0.50	**0.65**	**9.2**	**2.1**	**720**	< 0.50	**2.0**	< 0.50	**5.1**	**1.7**	< 0.50	< 0.50	**490**
EW-01	03/05/10	ORG	< 1.0	< 1.0	< 1.0	**6.7**	**1.6**	**500**	< 1.0	**1.9**	< 1.0	**3.2**	**1.6**	< 1.0	< 1.0	**370**
EW-01	06/11/10	ORG	< 1.0	< 1.0	< 1.0	**9.7**	**1.9**	**720**	< 1.0	**1.9**	< 1.0	**4.7**	**1.6**	< 1.0	< 1.0	**400**
EW-01	09/08/10	ORG	< 1.0	< 1.0	< 1.0	**10**	**2.4**	**720**	< 1.0	**2.0**	< 1.0	**4.7**	**2.0**	< 1.0	< 1.0	**370**
EW-01	12/07/10	ORG	< 1.0	< 1.0	< 1.0	**7.5**	**1.4**	**600 E**	< 1.0	**1.4**	< 1.0	**2.7**	**1.2**	< 1.0	< 1.0	**220**
EW-01	12/07/10	SPT	< 5	< 5	< 5	< 5	< 5	**340 E**	< 5	< 5	< 5	< 5	< 5	< 5	< 5	**290**
EW-01	03/24/11	ORG	< 0.50	< 0.50	< 0.50	**2.6**	**0.59**	**200**	< 0.50	**0.82**	< 0.50	**1.3**	**0.54**	< 0.50	< 0.50	**64**
EW-01	06/23/11	ORG	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	**180**	< 0.50	**0.50**	< 0.50	**0.83**	**0.52**	< 0.50	< 0.50	**59**
EW-100	06/23/11	FD	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**180**	< 0.50	< 0.50	< 0.50	**0.96**	< 0.50	< 0.50	< 0.50	**68**
EW-01	08/02/11	ORG	< 0.50	< 0.50	< 0.50	**3.1**	**0.61**	**370**	< 0.50	**0.67**	< 0.50	**1.4**	**0.55**	< 0.50	< 0.50	**80 E**
EW-01	11/01/11	ORG	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	**0.64**	< 0.50	< 0.50	< 0.50	**54**
EW-01	02/06/12	ORG	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	**59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11**
EW-01 Historical Range* **			< 0.50 - 2	< 0.50 - 0.55	< 0.50 - 1.2	< 0.50 - 16	< 0.50 - 4.2	< 0.50 - 1,600 E	< 0.50 - 0.52	< 0.50 - 3.3	< 0.50 - < 2.5	< 0.50 - 10	< 0.50 - 2.8	< 0.50 - < 5.0	< 0.50 - 4.6	5.1 - 710
EW-02	10/30/09	ORG	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**52**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.85**	**24**
EW-200	10/30/09	FD	< 0.50	< 0.50	< 0.50	**0.73**	< 0.50	**55**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.78**	**23**
EW-02	03/22/10	ORG	< 0.50	< 0.50	< 0.50	**0.92**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	03/23/10	ORG	< 0.50	< 0.50	< 0.50	**0.94**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24**
EW-02	03/24/10	ORG	< 0.50	< 0.50	< 0.50	**0.85**	< 0.50	**74**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**
EW-02	03/25/10	ORG	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	**70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	03/26/10	ORG	< 0.50	< 0.50	< 0.50	**0.83**	< 0.50	**76**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	04/01/10	ORG	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	**81**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**
EW-02	04/09/10	ORG	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	**85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**31**
EW-02	04/13/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	**0.59**	< 0.50	< 0.50	< 0.50	**43**
EW-02	04/23/10	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**91**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**35**
EW-02	05/25/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**100**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**38**
EW-02	06/10/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 5.0	**40**
EW-02	07/08/10	ORG	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**48**
EW-02	08/02/10	ORG	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**42**
EW-02	09/02/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**160**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**42**
EW-02	10/07/10	ORG	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**39**
EW-02	11/11/10	ORG	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**33**
EW-02	12/07/10	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**
EW-02	01/13/11	ORG	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**99**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**
EW-02	02/03/11	ORG	< 0.50	< 0.50	< 0.50	**0.88**	< 0.50	**83**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	03/02/11	ORG	< 0.50	< 0.50	< 0.50	**0.71**	< 0.50	**77**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**
EW-02	04/01/11	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**82**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16**
EW-02	05/04/11	ORG	< 0.50	< 0.50	< 0.50	**0.79**	< 0.50	**83**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**
EW-02	06/07/11	ORG	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
EW-02	07/02/11	ORG	< 0.50	< 0.50	< 0.50	**0.73**	< 0.50	**87**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**
EW-02	08/01/11	ORG	< 0.50	< 0.50	< 0.50	**0.91**	< 0.50	**75**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**21**
EW-02	09/09/11	ORG	< 0.50	< 0.50	< 0.50	**0.82**	< 0.50	**90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
EW-02	10/17/11	ORG	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Regional Groundwater System Monitor and Extraction Wells (cont'd)																
EW-02	11/01/11	ORG	< 0.50	< 0.50	< 0.50	**0.69**	< 0.50	**55**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22**
EW-02	12/07/11	ORG	< 0.50	< 0.50	< 0.50	**0.62**	< 0.50	**62**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**
EW-02	01/06/12	ORG	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**85**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**15**
EW-02	02/08/12	ORG	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**54**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.4**
EW-02	03/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**59**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**
Historical High/Low						**LOW**										**LOW**
EW-02 Historical Range* **			< 0.50	< 0.50	< 0.50	0.53 - 1.5	< 0.50	52 - 160	< 0.50	< 0.50	< 0.50	< 0.50 - 0.59	< 0.50	< 0.50	< 0.50 - 0.85	15 - 48
Perched Zone Piezometers																
P-07	06/23/97	ORG	< 1.0	**14**	**8.3**	**154**	< 1.0	**23,300**	**5.1**	**52**	**1,400**	**22**	**39**	< 1.0	< 1.0	NA
P-07	08/16/99	ORG	< 1,000	< 1,000	< 1,000	< 1,000	< 1,000	**22,600**	< 1,000	< 1,000	**1,180**	< 1,000	< 1,000	< 1,000	< 1,000	NA
P-07	01/26/00	ORG	**6**	< 5.0	< 5.0	**64**	< 5.0	**4,730**	< 5.0	**17**	**270**	**17**	**17**	< 5.0	< 5.0	NA
P-07	05/18/00	ORG	**12**	**7.7**	**5.8**	**98**	**17**	**13,000**	< 5.0	**36**	**355**	**25**	**37**	< 5.0	< 5.0	NA
P-07	05/10/01	ORG	**3 J**	**2 J**	**3 J**	**44**	**11**	**4,100**	< 5.0	**12**	**54**	**14**	**34**	< 5.0	< 5.0	**2,020**
P-07	10/24/01	ORG	< 25	< 25	< 25	< 25	< 25	**930**	< 25	< 25	< 25	< 25	< 25	< 25	< 25	**1,560**
P-07	04/18/02	ORG	< 5.0	< 5.0	< 5.0	**23**	**7**	**2,200**	< 5.0	**6**	**14**	**7.7**	**9.3**	< 5.0	< 5.0	**2,200 J**
P-07	04/18/02	SPT	**0.9**	**1.1**	**2.1**	**27.2**	**7.1**	**1,360**	**0.9**	**5.4**	**13**	**6.8**	**9.8**	**2.1**	< 0.50	**1,960**
P-07	11/21/02	ORG	**0.82**	< 0.50	**2.1**	**24**	**7.4**	**1,900**	**1.2**	**7.7**	< 0.50	**8.0**	**12**	**3.8**	< 0.50	**2,800**
P-07	06/11/03	ORG	**0.84**	< 0.50	**1.9**	**25**	**7.0**	**1,600**	**0.98**	**7.3**	**7.6**	**7.6**	**10**	**3.8**	< 0.50	**3,100**
P-07	09/25/03	ORG	**0.57**	< 0.50	**1.9**	**17**	< 0.50	**890**	**0.75**	**3.5**	**3.2**	**7.1**	**5.8**	**1.8**	< 0.50	**1,300**
P-07	12/17/03	ORG	**0.68**	**1**	**1.8**	**25**	**6.8**	**1,400**	**1.1**	**6.1**	**6.5**	**7.3**	**9.6**	**1.3**	< 1.0	**990**
P-07	03/31/04	ORG	< 5.0	< 5.0	< 5.0	**26**	< 5.0	**2,100**	< 5.0	**7.8**	**6.7**	**6.0**	**11**	< 5.0	< 5.0	**920**
P-07	06/17/04	ORG	< 5.0	< 5.0	< 5.0	**23**	< 5.0	**1,600**	< 5.0	< 5.0	< 5.0	**7.0**	**7.9**	< 5.0	< 5.0	**990**
P-07	12/15/04	ORG	< 5.0	< 5.0	**0.72**	**8.3**	**3.4**	**640**	< 5.0	**1.9**	< 0.50	**3.3**	**3.1**	< 5.0	< 0.50	**360**
P-07	03/23/06	ORG	**1.3**	**3.4**	**3.7**	**45**	**10**	**3,900**	**1.8**	**12**	< 0.50	**6.7**	**16**	**3.4**	< 0.50	**2,100**
P-07	03/23/06	SPT	< 3	< 3	< 3	**30**	< 3	**3,200**	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**1,900 J**
P-07	06/22/06	ORG	< 5.0	< 5.0	< 5.0	**32**	**8.7**	**4,200**	< 5.0	**14**	< 5.0	**6.0**	**18**	< 5.0	< 5.0	**1,400**
P-07	06/22/06	SPT	< 20	< 20	< 20	**30**	< 20	**3,100**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**NA**
P-07	09/28/06	ORG	< 5.0	< 5.0	< 5.0	**44**	< 5.0	**5,300**	< 5.0	**12**	< 5.0	**6.1**	**17**	< 5.0	< 5.0	**2,300**
P-07	12/19/06	ORG	< 1.0	< 1.0	< 1.0	**38**	< 1.0	**3,600**	< 1.0	**13**	< 1.0	< 1.0	**13**	< 1.0	< 1.0	**2,300**
P-07	03/13/07	ORG	**1.1**	**2.4**	**2.8**	**31**	**8**	**3,100**	**1.7**	**10**	< 0.50	**7.2**	**13**	**2.4**	< 0.50	**2,300**
P-07	03/19/08	ORG	< 2.5	< 2.5	**3.9**	**31**	**8.4**	**3,200**	< 2.5	**8.4**	< 2.5	**7.0**	**11**	**5.2**	< 2.5	**2,300**
P-07	06/27/08	ORG	**0.95**	**2.6**	**3.8 U**	**36**	**11**	**4,500**	**1.9**	**9.4**	< 0.50	**9.3**	**15**	**10**	< 0.50	**2,500**
P-07	09/25/08	ORG	< 5.0	< 5.0	< 5.0	**30**	**6.8**	**3,000**	< 5.0	**7.9**	< 5.0	**7.1**	**17**	**17**	< 5.0	**2,500 B**
P-07	12/18/08	ORG	< 5.0	< 5.0	< 5.0	**30**	**8.0**	**2,800**	< 5.0	**6.8**	< 5.0	**8.2**	**8.4**	< 5.0	< 5.0	**2,600**
P-07	03/17/09	ORG	< 10	< 10	< 10	**40**	< 10	**3,500**	< 10	< 10	< 10	**12**	**14**	< 10	< 10	**2,600**
P-07	06/25/09	ORG	< 10	< 10	< 10	**29**	< 10	**3,100**	< 10	< 10	< 10	**11**	**10**	< 10	< 10	**2,900**
P-07	09/01/09	ORG	< 5.0	< 5.0	< 5.0	**27**	**7.0**	**2,500**	< 5.0	**7.4**	< 5.0	**8.7**	**10**	< 5.0	< 5.0	**2,600**
P-07	12/10/09	ORG	< 5.0	< 5.0	< 5.0	**37**	**8.8**	**3,300**	< 5.0	**9.7**	< 5.0	**11**	**11**	< 5.0	< 5.0	**2,800**
P-07	03/03/10	ORG	< 5.0	< 5.0	< 5.0	**35**	**9.8**	**3,500**	< 5.0	**9.9**	< 5.0	**14**	**12**	< 5.0	< 5.0	**3,100**
P-07	06/11/10	ORG	< 5.0	< 5.0	< 5.0	**33**	**7.4**	**2,400**	< 5.0	**5.6**	< 5.0	**12**	**9.7**	< 5.0	< 5.0	**2,500**
P-07	09/10/10	ORG	< 5.0	< 5.0	< 5.0	**28**	**7.1**	**1,900**	< 5.0	**6.7**	< 5.0	**7.8**	**13**	< 5.0	< 5.0	**2,500**
P-07	12/10/10	ORG	< 5.0	< 5.0	< 5.0	**29**	**6.0**	**2,700**	< 5.0	**7.1**	< 5.0	**9.1**	**8.9**	< 5.0	< 5.0	**2,000**
P-07	03/30/11	ORG	< 5.0	< 5.0	< 5.0	**29**	**7.9**	**2,400**	< 5.0	**9.6**	< 5.0	**12**	**11**	< 5.0	< 5.0	**1,000**
P-07	02/09/12	ORG	< 20	< 20	< 20	**33**	< 20	**2,800**	< 20	< 20	< 20	< 20	< 20	< 20	< 20	**2,200**
P-07 Historical Range* **			0.57 - 12	1 - 14	0.72 - 8.3	8.3 - 154	< 0.50 - 17	640 - 23,300	0.75 - 5.1	1.9 - 52	< 0.50 - 1,400	<1.0 - 25	3.1 - 39	< 1.0 - 17	<0.50	360 - 3,100

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

Well Identifier / Sample Identifier	Date Sampled	QA Code	VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	Semi-VOCs 1,4-DIOXANE (3*/1**)
Perched Zone Piezometers (continued)																
P-09	09/25/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	10/08/03	ORG	< 0.50	< 0.50	< 0.50	**0.87**	< 0.50	**67**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/18/03	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**32**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/30/04	ORG	< 0.50	< 0.50	< 0.50	**0.76**	< 0.50	**130**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/17/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-900	06/17/04	FD	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	06/17/04	SPT	< 1	< 1	< 1	< 1	< 1	**2**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1.0
P-09	09/21/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.1
P-09	12/15/04	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	03/16/05	ORG	< 0.50	< 0.50	< 0.50	**0.65**	< 0.50	**88**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	06/24/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**43 E**	< 0.50	< 0.50	< 0.50	< 0.50	**0.58**	< 0.50	< 0.50	< 2.0
P-09	09/22/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**25**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/20/05	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**27**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	12/20/05	SPT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**29**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3**
P-09	03/22/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**
P-09	06/21/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**20**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/28/06	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**19**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.2
P-09	12/18/06	ORG	< 0.50	< 0.50	< 0.50	**0.53**	< 0.50	**37**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/13/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/21/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/26/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/12/07	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/18/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/26/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/16/08	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/17/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.1**
P-09	06/25/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.7
P-09	09/01/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/08/09	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5
P-09	03/02/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	06/10/10	ORG	< 0.50	< 0.50	< 0.50	**0.51**	< 0.50	**30**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	09/09/10	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**13**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	12/08/10	ORG	< 0.50	< 0.50	< 0.50	**0.52**	< 0.50	**21**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0
P-09	03/30/11	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.86**
P-09	02/09/12	ORG	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.68**
Historical High/Low																**LOW**
P-09 Historical Range* **			< 0.50	< 0.50	< 0.50	< 0.50 - 0.87	< 0.50	1.2 - 130	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 - 0.58	< 0.50	< 0.50	0.86 - 7.1
Perched Zone Grab Samples (From Regional Groundwater System Monitor Well Boring)																
MW-6-W-104	01/16/97	ORG	< 1.0	**12**	**33**	**500**	< 1.0	**19,000**	**24**	**89**	**2,800**	**223**	**73**	< 1.0	< 1.0	NA
MW-9-113-PW	03/21/97	ORG	< 1.0	**10**	**15**	**210**	< 1.0	**27,300**	**8.2**	**65**	**4,500**	**120**	**48**	**11**	< 1.0	NA

TABLE 4

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER

Concentration (micrograms per liter)

			VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL)												Semi-VOCs
Well Identifier / Sample Identifier	Date Sampled	QA Code	Benzene (5/1)	Carbon Tetrachloride (5/0.5)	Chloroform (80/80)	1,1-DCA (--/5)	1,2-DCA (--/--)	1,1-DCE (7/6)	cis-1,2-DCE (70/6)	PCE (5/5)	1,1,1-TCA (200/200)	1,1,2-TCA (5/5)	TCE (5/5)	TCFM (--/150)	Toulene (1,000/150)	1,4-DIOXANE (3*/1**)
QUALITY ASSURANCE/QUALITY CONTROL SAMPLES																
TB-062111	06/21/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-062111A	06/21/11	TB	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
TB-062211	06/22/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-062311	06/23/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-062411	06/24/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080211	08/02/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080211A	08/02/11	TB	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
TB-080311	08/03/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB080311	08/03/11	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-080411	08/04/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080411A	08/04/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-080411	08/05/11	TB	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
RB-080511	08/05/11	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-090911	09/09/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-1017911	10/17/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110111	11/01/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110211	11/02/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110211	11/02/11	TB	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
TB-110311	11/03/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-110411	11/04/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-120711	12/07/11	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-010612	01/06/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-011312	01/13/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-011312	01/13/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-012612	01/26/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-012612	01/26/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020612	02/06/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-020712	02/07/12	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-020712	02/07/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
RB-020812	02/08/12	RB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20
TB-020812	02/08/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020812	02/08/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-020812A	02/08/12	TB	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
TB-020912	02/09/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA
TB-030912	03/09/12	TB	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA

NOTE: Detections are shown in **BOLD** type.

FOOTNOTES

[a] Reconnaissance groundwater sample; results should be considered qualitative.
[b] Groundwater sample collected after purging two additional casing volumes.
[c] Groundwater sample collected after standard 3 purge volumes.
[d] Groundwater sample collected after 10 purge volumes.
[e] Groundwater sample collected after 30 purge volumes.
[f] Groundwater sample collected after 50 purge volumes.

1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1-DCE = 1,1-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene
PCE = Tetrachloroethylene
1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
TCE = Trichloroethylene
TCFM = Trichlorofluoromethane
(<) = Less than; the value is the Limit of Detection for that compound
(--) = Not promulgated

Semi-VOCs = Semivolatile organic compounds
E = Data qualified as estimated in accordance with quality control criteria.
NA = Not analyzed for constituent
FD = Field duplicate sample
J = Data qualified as Estimated; does not meet calibration range acceptance criteria.
ORG = Original sample
QA = Quality Assurance
RB = Rinsate blank sample
SPT = Split sample
TB = Trip blank sample
U = Data qualified as unusable in accordance with quality control criteria.
ug/l = Micrograms per liter
MCL = Maximum contaminant level
* = 1,4-Dioxane Action Level of 3 ug/l
** = California Notification Level for 1,4-dioxane of 1 ug/l
*** = Historical Range determined using original samples exclusively
B = Analyte detected in the associated Method Blank

TABLE 5

OTHER VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

WELL IDENTIFIER	DATE SAMPLED	QUALITY ASSURANCE CODE	COMPOUNDS	CONCENTRATION (micrograms per liter)
Regional Groundwater System Monitor and Extraction Wells				
EW-01	12/11/2006	SPT	Methylene chloride	4
EW-01	12/13/2007	ORG	Vinyl chloride	0.58
EW-01	12/13/2007	FD	Vinyl chloride	0.6
EW-02	12/7/2011	ORG	Naphthalene	6.4
MW-08	12/20/2005	SPT	Methylene chloride	3
MW-08	6/22/2006	ORG	Methylene chloride	0.62
MW-08	6/22/2006	FD	Methylene chloride	0.69
MW-16	4/16/2002	SPT	2-butanone	7
MW-16	4/16/2002	SPT	Acetone	20
MW-16	6/18/2004	ORG	Chlorobenzene	1.0
MW-16	12/10/2004	ORG	Methylene chloride	1.3
MW-18	11/19/2002	ORG	m,p-Xylene	0.54
MW-21	9/23/2003	FD	1,3-Dichloropropane	0.8
MW-21	12/17/2003	ORG	trans-1,2-Dichloroethylene	0.62
MW-21	3/17/2005	ORG	trans-1,2-Dichloroethylene	0.57
MW-21	12/11/2006	SPT	Acetone	40
MW-21	12/11/2006	SPT	Methylene chloride	50 E
MW-21	6/24/2011	SPT	1,2,2-trichlorotifluoroethane	2
MW-26C	12/20/2007	ORG	1,1-dichloropropene	0.93
MW-28	5/27/2008	ORG	Vinyl chloride	0.58
MW-28	3/30/2011	ORG	Chloromethane	0.91
MW-30B	8/5/2011	SPT	1,2,2-trichlorotifluoroethane	2
MW-34A	2/25/2011	SPT	Acetone	6 U
MW-34B	2/25/2011	SPT	Acetone	6 U
MW-34B	3/10/2011	SPT	Acetone	6 U
MW-34C	2/25/2011	SPT	Acetone	7 U
MW-34C	11/2/2011	ORG	Chloromethane	0.5
MW-35A	1/19/2011	ORG	Bromodichloromethane	4.3
MW-35A	1/19/2011	ORG	Bromoform	1.5
MW-35A	1/19/2011	ORG	Bromomethane	0.75
MW-35A	1/19/2011	ORG	Chloromethane	0.78
MW-35A	1/19/2011	ORG	Dibromochloromethane	2.5
MW-35A	1/19/2011	FD	Bromodichloromethane	4.0
MW-35A	1/19/2011	FD	Bromoform	1.4
MW-35A	1/19/2011	FD	Chloromethane	0.73
MW-35A	1/19/2011	FD	Dibromochloromethane	2.4
MW-35A	1/19/2011	SPT	Bromodichloromethane	3
MW-35A	1/19/2011	SPT	Bromoform	2
MW-35A	1/19/2011	SPT	Dibromochloromethane	2

TABLE 5

OTHER VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

WELL IDENTIFIER	DATE SAMPLED	QUALITY ASSURANCE CODE	COMPOUNDS	CONCENTRATION (micrograms per liter)
Regional Groundwater System Monitor and Extraction Wells (Continued)				
MW-35A	2/3/2011	ORG	Bromodichloromethane	3.6
MW-35A	2/3/2011	ORG	Bromoform	0.65
MW-35A	2/3/2011	ORG	Dibromochloromethane	1.7
MW-35A	2/3/2011	FD	Bromodichloromethane	4.1
MW-35A	2/3/2011	FD	Bromoform	0.69
MW-35A	2/3/2011	FD	Dibromochloromethane	2.0
MW-35A	2/3/2011	SPT	Bromodichloromethane	2
MW-35A	2/3/2011	SPT	Dibromochloromethane	1
MW-35A	3/28/2011	ORG	Bromodichloromethane	0.90
MW-35A	6/22/2011	ORG	Bromodichloromethane	0.59
MW-35A	11/1/2011	ORG	Chloromethane	0.59
MW-35C	1/19/2011	ORG	Bromodichloromethane	11 E
MW-35C	1/19/2011	ORG	Bromoform	1.1
MW-35C	1/19/2011	ORG	Bromomethane	0.52
MW-35C	1/19/2011	ORG	Dibromochloromethane	3.6
MW-35C	1/19/2011	FD	Bromodichloromethane	10 E
MW-35C	1/19/2011	FD	Bromoform	1.1
MW-35C	1/19/2011	FD	Bromomethane	0.90
MW-35C	1/19/2011	FD	Chloromethane	0.64
MW-35C	1/19/2011	FD	Dibromochloromethane	3.5
MW-35C	1/19/2011	SPT	Bromodichloromethane	8 E
MW-35C	1/19/2011	SPT	Bromoform	1
MW-35C	1/19/2011	SPT	Dibromochloromethane	3
Perched Zone Piezometers				
P-07	6/22/2006	ORG	Methylene chloride	7.4
P-07	3/13/2007	ORG	Vinyl chloride	1.2
P-07	6/27/2008	ORG	Vinyl chloride	1.8
P-07	9/25/2008	ORG	Vinyl chloride	7.8
P-09	12/20/2005	SPT	Methylene chloride	3 U
Perched Zone Grab Samples (From Regional Groundwater System Monitor Well Boring)				
MW-6-W-104	1/16/1997	ORG	1,1,1,2-tetrachloroethane	1.6
MW-6-W-104	1/16/1997	ORG	1,2-Dichloropropane	2.1

FOOTNOTES

E = Estimated
FD = Field duplicate sample
ORG = Original sample
SPT = Split sample
U = Unusable

HARGIS + ASSOCIATES, INC.

TABLE 6

PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLING SCHEDULE

COMPOUND(S) / CONSITITUENT	ANALYTICAL METHOD	SAMPLE CONTAINER	REPORTING DETECTION LIMITS (milligrams per liter)	SAMPLE FREQUENCY AND LOCATION: Daily Samples[1]: Days 1-5 — Extraction Well head (EW-02)[2]	Post-Filter (PF)	Post-Oxidation (POX)	Carbon Breakthrough (CBT)[3]	Post-Carbon (CEFF)	Weekly Samples[1]: Weeks 1-4 — Extraction Well head (EW-02)[2]	Post-Filter (PF)	Post-Oxidation (POX)	Carbon Breakthrough (CBT)[3]	Post-Carbon (CEFF)	Monthly Samples: Week 5+ — Extraction Well head (EW-02)[2]	Post-Filter (PF)	Post-Oxidation (POX)	Carbon Breakthrough (CBT)[3]	Post-Carbon (CEFF)	Quarterly Samples: Week 1+ — Extraction Well head (EW-02)[2]	Post-Oxidation (POX)
COMPOUNDS/CONSTITUENTS NORMALLY REQUIRED AS PART OF NPDES OR WDR PERMITS, PURSUANT TO CRWQCB REGION 8 ORDER NO. R8-2003-0085																				
Volatile Organic Compounds	8260B	QAPP[4]	QAPP[4]	X		X	X	X	X		X	X	X	X		X	X	X		
1,4-Dioxane	8270 Modified	QAPP[4]	0.002	X					X					X						
1,4-Dioxane	8270 SIM	QAPP[4]	0.0002			X					X					X				
Total Suspended Solids	SM2540D	8-oz poly	10	(a)	(a)									X	X					
Total Dissolved Solids	SM2540C	8-oz poly	10	(a)										X		X		X		
SELECTED METALS																				
Dissolved Metals (Iron, Manganese, Calcium, Sodium, Magnesium)	6010B	QAPP[4]	QAPP[4]	(a)															X	
Selenium	6010B	QAPP[4]	QAPP[4]																X	
SELECTED INORGANIC CONSTITUENTS																				
Hydroxide Alkalinity	SM2320B	8-oz poly	2.0	(a)															X	
Bicarbonate Alkalinity	SM2320B	8-oz poly	2.0	(a)															X	
Carbonate Alkalinity	SM2320B	8-oz poly	2.0	(a)															X	
Total Alkalinity	SM2320B	8-oz poly	2.0	(a)															X	
BROMATE EVALUATION																				
Bromate	317.0	4-oz poly	0.0005	X		X		X	X		X		X	X		X		X		
Bromide	300.0	4-oz poly	0.05	X		X		X	X		X		X	X		X		X		
OTHER CONSTITUENTS/COMPOUNDS																				
Total Organic Carbon	SM5310B	40 ml VOA, HCl	3.0	(a)															X	X
Anions (Chloride, Sulfate, Nitrate, Nitrite, and Phosphate)	300.0	16-oz poly	Varies	(a)															X	X
Chemical Oxygen Demand	410.4	4-oz poly, H_2SO_4	5.0	(a)															X	X
Field Parameters																				
Dissolve Oxygen (DO)	N/A	N/A	N/A	X		X		X	X		X		X	X		X	X	X		
Electrical Conductance (EC)	N/A	N/A	N/A	X		X		X	X		X		X	X		X	X	X		
Redox Potential	N/A	N/A	N/A	X		X		X	X		X		X	X		X	X	X		
Temperature	N/A	N/A	N/A	X		X	X	X	X		X	X	X	X		X	X	X		
pH	N/A	N/A	N/A	X		X		X	X		X		X	X		X	X	X		
Turbidity	N/A	N/A	N/A	X	X				X	X				X	X					
Flow-Meter	N/A	N/A	N/A	X				X	X				X	X				X		

FOOTNOTES

(a) Only one sample to be collected during sampling period.

1 Daily and weekly samples collected during the first month of operation will be repeated after major modifications to system equipment or operating parameters, as detailed in the Workplan.

2 If more than one extraction well is in operation, combined influent samples will be collected in addition to extraction wellhead samples, with the same sampling schedule as the extraction wellheads.

3 Carbon breakthrough will be collected from the effluent of the first carbon unit in series; when breakthrough of the first unit is detected, the breakthrough sample will be collected from the effluent of the second carbon unit in series.

4 QAPP, Quality Assurance Project Plan, Appendix B of Additional Groundwater Assessment Workplan, Hargis + Associates, Inc., April 25, 2003.

CRWQCB = California Regional Water Quality Control Board, Santa Ana Region 8
NPDES = National Pollutant Discharge Elimination System
WDR = Waste Discharge Requirement
N/A = Not applicable
ml = Milliliter
VOA = Volatile organic analysis
HCl = Hydrochloric acid
H_2SO_4 = Sulfuric acid

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
1,1,2-Trichloroethane	07/08/08	ug/l	16	5.5	--	10	--	8.1	< 0.50	< 0.50
(5 ug/l MCL)	07/09/08	ug/l	17	5.0	--	10	--	7.8	< 0.50	< 0.50
	07/10/08	ug/l	13	3.2	--	7.8	--	5.1	< 0.50	< 0.50
	07/15/08	ug/l	13	4.6	--	7.4	3.9	5.4	< 0.50	< 0.50
	07/16/08	ug/l	14	3.9	--	8.8	--	5.7	< 0.50	< 0.50
	07/23/08	ug/l	13	2.6	--	< 5.0	--	4.5	< 0.50	< 0.50
	07/30/08	ug/l	10	2.6	--	< 5.0	--	4.4	< 0.50	< 0.50
	08/06/08	ug/l	7.7	2.0	--	< 5.0	--	4.6	< 0.50	< 0.50
	08/25/08	ug/l	6.3	1.5	--	3.2	--	2.8	< 0.50	< 0.50
	09/24/08	ug/l	4.8	1.2	--	< 2.5	--	1.8	< 0.50	< 0.50
	10/22/08	ug/l	3.0	1.2	--	2.3	--	1.5	< 0.50	< 0.50
	11/26/08	ug/l	2.5	1.5	--	2.3	--	1.7	< 0.50	< 0.50
	02/25/09	ug/l	< 2.5	3.0	--	2.3	--	1.9	< 0.50	< 0.50
	3/18/2009	ug/l	2.5	1.2	--	1.3	--	1.3	< 0.50	< 0.50
	4/29/2009	ug/l	< 2.5	0.86	--	1.5	--	1.0	< 0.50	< 0.50
	5/27/2009	ug/l	< 2.5	1.5	--	1.6	--	1.4	< 0.50	< 0.50
	6/29/2009	ug/l	2.1	1.2	--	1.6	--	1.2	< 0.50	< 0.50
	07/22/09	ug/l	1.9	1.3	--	1.6	--	1.2	< 0.50	< 0.50
	08/14/09	ug/l	< 2.5	0.98	--	1.6	--	0.97	< 0.50	< 0.50
	09/11/09	ug/l	< 2.5	1.3	--	1.7	--	1.0	< 0.50	< 0.50
	10/08/09	ug/l	< 2.5	0.92	--	1.5	--	1.2	< 0.50	< 0.50
	12/09/09	ug/l	< 0.50	5.1	--	2.5	--	1.7	< 0.50	< 0.50
	03/05/10	ug/l	<1.0	3.2	--	--	--	--	--	--
	03/22/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/26/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/01/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/09/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/13/10	ug/l	--	--	0.59	--	--	< 0.50	< 0.50	< 0.50
	04/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/10/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/11/10	ug/l	< 2.0	4.7	--	--	--	--	--	--
	07/08/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/08/10	ug/l	< 2.0	< 1.0	--	--	--	--	--	--
	10/07/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/11/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/06/10	ug/l	7.6	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	5	--	--	--	--	--	--	--
	12/07/10	ug/l	--	2.7	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/10 Split Sample	ug/l	--	< 5	--	--	--	--	--	--
	01/13/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	02/03/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/11	ug/l	13	1.3	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	13	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/04/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/07/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	07/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/11	ug/l	11	1.4	--	--	--	--	--	--
	09/09/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	10/17/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/01/11	ug/l	11	0.64	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/11	ug/l	< 10	--	< 0.50	< 5.0	--	3.0	< 0.50	< 0.50
	01/06/12	ug/l	< 10	--	< 0.50	< 0.50	--	0.98	< 0.50	< 0.50
	02/06/12	ug/l	--	< 0.50	--	--	--	--	--	--
	02/08/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	0.66	< 0.50	< 0.50
	03/09/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	0.58	< 0.50	< 0.50

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
1,1-Dichloroethane	07/08/08	ug/l	47	8.5	--	23	--	17	< 0.50	< 0.50
(5 ug/l MCL)	07/09/08	ug/l	54	9.2	--	29	--	18	< 0.50	< 0.50
	07/10/08	ug/l	38	6.1	--	21	--	11	< 0.50	< 0.50
	07/15/08	ug/l	42	7.0	--	22	7.0	11	< 0.50	< 0.50
	07/16/08	ug/l	47	7.2	--	28	--	14	< 0.50	< 0.50
	07/23/08	ug/l	40	5.2	--	23	--	9.0	< 0.50	< 0.50
	07/30/08	ug/l	41	5.5	--	18	--	9.9	< 0.50	< 0.50
	08/06/08	ug/l	32	4.2	--	17	--	14	< 0.50	< 0.50
	08/25/08	ug/l	21	3.0	--	11	--	6.4	< 0.50	< 0.50
	09/24/08	ug/l	15	2.4	--	8.0	--	3.5	< 0.50	< 0.50
	10/22/08	ug/l	13	2.7	--	8.1	--	4.5	< 0.50	< 0.50
	11/26/08	ug/l	11	2.9	--	8.3	--	4.5	0.75	< 0.50
	02/25/09	ug/l	6.6	4.8	--	5.7	--	3.7	1.1	< 0.50
	3/18/2009	ug/l	7.7	1.8	--	4.4	--	2.8	2.2	< 0.50
	4/29/2009	ug/l	7.8	1.6	--	4.3	--	2.3	2.6	< 0.50
	5/27/2009	ug/l	8.4	3.4	--	5.5	--	4.0	4.0	0.6
	6/29/2009	ug/l	7.4	2.2	--	4.5	--	3.1	4.3	1.1
	07/22/09	ug/l	8.4	3.2	--	5.8	--	3.5	5.4	2.1
	08/14/09	ug/l	8.8	2.2	--	5.1	--	3.2	5.0	2.7
	09/11/09	ug/l	8.3	3.1	--	5.8	--	2.9	4.8	3.4
	10/08/09	ug/l	9.2	2.0	--	5.1	--	3.8	5.4	4.1
	12/09/09	ug/l	1.7	9.2	--	4.9	--	3.2	4.6	3.8
	03/05/10	ug/l	2.9	6.7	--	--	--	--	--	--
	03/22/10	ug/l	--	--	0.92	--	--	0.62	< 0.50	< 0.50
	03/23/10	ug/l	--	--	0.94	--	--	0.67	< 0.50	< 0.50
	03/24/10	ug/l	--	--	0.85	--	--	0.62	< 0.50	< 0.50
	03/25/10	ug/l	--	--	0.79	--	--	0.52	< 0.50	< 0.50
	03/26/10	ug/l	--	--	0.83	--	--	0.66	< 0.50	< 0.50
	04/01/10	ug/l	--	--	0.88	--	--	< 0.50	< 0.50	< 0.50
	04/09/10	ug/l	--	--	0.90	--	--	0.77	< 0.50	< 0.50
	04/13/10	ug/l	--	--	1.4	--	--	0.85	< 0.50	< 0.50
	04/23/10	ug/l	--	--	1.0	--	--	0.80	< 0.50	< 0.50
	05/25/10	ug/l	--	--	1.1	--	--	0.87	< 0.50	< 0.50
	06/10/10	ug/l	--	--	1.4	--	--	0.99	< 0.50	< 0.50
	06/11/10	ug/l	8.6	9.7	--	--	--	--	--	--
	07/08/10	ug/l	--	--	1.5	--	--	1.2	0.59	< 0.50
	08/02/10	ug/l	--	--	1.3	--	--	1.0	0.82	< 0.50
	09/02/10	ug/l	--	--	1.4	--	--	1.0	0.98	0.56
	09/08/10	ug/l	12	10	--	--	--	--	--	--
	10/07/10	ug/l	--	--	1.4	--	--	1.1	1.1	0.70
	11/11/10	ug/l	--	--	1.1	--	--	0.97	1.0	0.86
	12/06/10	ug/l	25	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	10	--	--	--	--	--	--	--
	12/07/10	ug/l	--	7.5	1.0	--	--	0.81	1.0	0.89
	12/07/10 Split Sample	ug/l	--	< 5	--	--	--	--	--	--
	01/13/11	ug/l	--	--	1.0	--	--	0.73	0.99	1.0
	02/03/11	ug/l	--	--	0.88	--	--	0.77	0.83	0.94
	03/02/11	ug/l	--	--	0.71	--	--	< 0.50	0.70	0.83
	03/24/11	ug/l	38	2.6	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	33	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	0.76	--	--	0.53	0.69	0.82
	05/04/11	ug/l	--	--	0.79	--	--	0.60	0.75	0.82
	06/07/11	ug/l	--	--	0.65	--	--	< 0.50	0.59	0.70
	07/02/11	ug/l	--	--	0.73	--	--	0.58	0.71	0.80
	08/01/11	ug/l	--	--	0.91	--	--	0.66	0.72	0.81
	08/02/11	ug/l	34	3.1	--	--	--	--	--	--
	09/09/11	ug/l	--	--	0.82	--	--	0.61	0.64	0.72
	10/17/11	ug/l	--	--	0.62	--	--	< 0.50	0.52	0.56
	11/01/11	ug/l	29	1.6	0.69	--	--	0.52	0.55	0.56
	12/07/11	ug/l	43	--	0.62	12	--	8.4	2.6	0.71
	01/06/12	ug/l	15	--	0.53	4.0	--	3.9	3.8	3.2
	02/06/12	ug/l	--	0.85	--	--	--	--	--	--
	02/08/12	ug/l	8.5	--	0.53	2.8	--	2.0	2.4	2.5
	03/09/12	ug/l	8.6	--	< 0.50	2.5	--	2.0	2.2	2.3

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
1,1-Dichloroethylene	07/08/08	ug/l	3,500	720	--	2,100	--	46	< 0.50	< 0.50
(6 ug/l MCL)	07/09/08	ug/l	4,200	820	--	3,000	--	5.0	0.50	< 0.50
	07/10/08	ug/l	3,800	580	--	2,000	--	0.83	< 0.50	< 0.50
	07/15/08	ug/l	3,500	630	--	2,100	400	< 0.50	< 0.50	< 0.50
	07/16/08	ug/l	4,800	1,000	--	2,800	--	0.87	< 0.50	< 0.50
	07/23/08	ug/l	3,500	520	--	2,100	--	0.73	< 0.50	< 0.50
	07/30/08	ug/l	3,400	360	--	1,400	--	1.6	< 0.50	< 0.50
	08/06/08	ug/l	1,500	340	--	1,500	--	12	< 0.50	< 0.50
	08/25/08	ug/l	1,800	230	--	1,100	--	25	< 0.50	< 0.50
	09/24/08	ug/l	1,200	180	--	610	--	0.65	< 0.50	< 0.50
	10/22/08	ug/l	1,200	200	--	730	--	11	< 0.50	< 0.50
	11/26/08	ug/l	1,100	190	--	730	--	2.5	< 0.50	< 0.50
	02/25/09	ug/l	720	360	--	570	--	2.5	< 0.50	< 0.50
	3/18/2009	ug/l	900	160	--	460	--	< 0.50	< 0.50	< 0.50
	4/29/2009	ug/l	860	150	--	470	--	< 0.50	< 0.50	< 0.50
	5/27/2009	ug/l	940	320	--	590	--	< 0.50	< 0.50	< 0.50
	6/29/2009	ug/l	860	200	--	510	--	< 0.50	< 0.50	< 0.50
	07/22/09	ug/l	870	260	--	580	--	< 0.50	< 0.50	< 0.50
	08/14/09	ug/l	900	190	--	540	--	< 0.50	< 0.50	< 0.50
	09/11/09	ug/l	1,100	280	--	610	--	< 0.50	< 0.50	< 0.50
	10/08/09	ug/l	830	150	--	600	--	< 0.50	< 0.50	< 0.50
	12/09/09	ug/l	200	720	--	400	--	1.8	< 0.50	< 0.50
	03/05/10	ug/l	370	500	--	--	--	--	--	--
	03/22/10	ug/l	--	--	82	--	--	< 0.50	< 0.50	< 0.50
	03/23/10	ug/l	--	--	82	--	--	< 0.50	< 0.50	< 0.50
	03/24/10	ug/l	--	--	74	--	--	< 0.50	< 0.50	< 0.50
	03/25/10	ug/l	--	--	70	--	--	< 0.50	< 0.50	< 0.50
	03/26/10	ug/l	--	--	76	--	--	< 0.50	< 0.50	< 0.50
	04/01/10	ug/l	--	--	81	--	--	< 0.50	< 0.50	< 0.50
	04/09/10	ug/l	--	--	85	--	--	< 0.50	< 0.50	< 0.50
	04/13/10	ug/l	--	--	120	--	--	< 0.50	< 0.50	< 0.50
	04/23/10	ug/l	--	--	91	--	--	< 0.50	< 0.50	< 0.50
	05/25/10	ug/l	--	--	100	--	--	< 0.50	< 0.50	< 0.50
	06/10/10	ug/l	--	--	120	--	--	< 0.50	< 0.50	< 0.50
	06/11/10	ug/l	800	720	--	--	--	--	--	--
	07/08/10	ug/l	--	--	160	--	--	< 0.50	< 0.50	< 0.50
	08/02/10	ug/l	--	--	150	--	--	< 0.50	< 0.50	< 0.50
	09/02/10	ug/l	--	--	160	--	--	< 0.50	< 0.50	< 0.50
	09/08/10	ug/l	1000	720	--	--	--	--	--	--
	10/07/10	ug/l	--	--	140	--	--	< 0.50	< 0.50	< 0.50
	11/11/10	ug/l	--	--	140	--	--	< 0.50	< 0.50	< 0.50
	12/06/10	ug/l	2300	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	1600	--	--	--	--	--	--	--
	12/07/10	ug/l	--	600	130	--	--	< 0.50	< 0.50	< 0.50
	12/07/10 Split Sample	ug/l	--	340	--	--	--	--	--	--
	01/13/11	ug/l	--	--	99	--	--	< 0.50	< 0.50	< 0.50
	02/03/11	ug/l	--	--	83	--	--	< 0.50	< 0.50	< 0.50
	03/02/11	ug/l	--	--	77	--	--	0.50	< 0.50	< 0.50
	03/24/11	ug/l	2800	200	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	2400	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	82	--	--	< 0.50	< 0.50	< 0.50
	05/04/11	ug/l	--	--	83	--	--	< 0.50	< 0.50	< 0.50
	06/07/11	ug/l	--	--	67	--	--	0.54	< 0.50	< 0.50
	07/02/11	ug/l	--	--	87	--	--	< 0.50	< 0.50	< 0.50
	08/01/11	ug/l	--	--	75	--	--	< 0.50	< 0.50	< 0.50
	08/02/11	ug/l	2400	370	--	--	--	--	--	--
	09/09/11	ug/l	--	--	90	--	--	< 0.50	< 0.50	< 0.50
	10/17/11	ug/l	--	--	67	--	--	< 0.50	< 0.50	< 0.50
	11/01/11	ug/l	1600	82	55	--	--	< 0.50	< 0.50	< 0.50
	12/07/11	ug/l	3200	--	62	850	--	1.6	< 0.50	< 0.50
	01/06/12	ug/l	1,400	--	85	450	--	< 0.50	< 0.50	< 0.50
	02/06/12	ug/l	--	59	--	--	--	--	--	--
	02/08/12	ug/l	520	--	54	300	--	< 0.50	< 0.50	< 0.50
	03/09/12	ug/l	860	--	59	210	--	< 0.50	< 0.50	< 0.50

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
1,2-Dichloroethane	07/08/08	ug/l	< 10	< 2.5	--	3.8	--	2.7	< 0.50	< 0.50
(0.5 ug/l MCL)	07/09/08	ug/l	< 10	1.9	--	< 5	--	2.4	< 0.50	< 0.50
	07/10/08	ug/l	5.2	1.5	--	3.1	--	1.4	< 0.50	< 0.50
	07/15/08	ug/l	< 5.0	1.8	--	< 5.0	1.4	1.5	< 0.50	< 0.50
	07/16/08	ug/l	5.5	1.7	--	< 5.0	--	1.5	< 0.50	< 0.50
	07/23/08	ug/l	< 10	1.2	--	< 5.0	--	1.2	< 0.50	< 0.50
	07/30/08	ug/l	< 10	1.1	--	< 5.0	--	1.3	< 0.50	< 0.50
	08/06/08	ug/l	< 5.0	< 1.0	--	< 5.0	--	2.1	< 0.50	< 0.50
	08/25/08	ug/l	< 5.0	0.62	--	< 2.5	--	0.79	< 0.50	< 0.50
	09/24/08	ug/l	< 2.5	0.57	--	< 2.5	--	0.51	< 0.50	< 0.50
	10/22/08	ug/l	< 2.5	0.50	--	< 1	--	< 0.50	< 0.50	< 0.50
	11/26/08	ug/l	< 2.5	0.65	--	1.0	--	0.62	< 0.50	< 0.50
	02/25/09	ug/l	< 2.5	0.93	--	< 1.0	--	0.50	< 0.50	< 0.50
	3/18/2009	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	4/29/2009	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	5/27/2009	ug/l	< 2.5	0.76	--	< 1.0	--	0.50	< 0.50	< 0.50
	6/29/2009	ug/l	0.81	0.53	--	0.68	--	0.50	0.53	< 0.50
	07/22/09	ug/l	< 1.0	0.64	--	< 1.0	--	< 0.50	0.57	< 0.50
	08/14/09	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	0.59	< 0.50
	09/11/09	ug/l	< 2.5	0.70	--	< 1.0	--	< 0.50	0.62	< 0.50
	10/08/09	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	0.66	< 0.50
	12/09/09	ug/l	< 0.50	2.1	--	1.1	--	0.61	0.57	< 0.50
	03/05/10	ug/l	<1.0	1.6	--	--	--	--	--	--
	03/22/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/26/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/01/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/09/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/13/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/10/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/11/10	ug/l	< 2.0	1.9	--	--	--	--	--	--
	07/08/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/08/10	ug/l	< 2.0	2.4	--	--	--	--	--	--
	10/07/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/11/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/06/10	ug/l	< 5.0	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	< 5	--	--	--	--	--	--	--
	12/07/10	ug/l	--	1.4	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/10 Split Sample	ug/l	--	< 5	--	--	--	--	--	--
	01/13/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	02/03/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/11	ug/l	5.7	0.59	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	4	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/04/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/07/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	07/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/11	ug/l	< 5.0	0.61	--	--	--	--	--	--
	09/09/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	10/17/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/01/11	ug/l	4.9	< 0.50	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/11	ug/l	< 10	--	< 0.50	< 5.0	--	1.3	< 0.50	< 0.50
	01/06/12	ug/l	< 10	--	< 0.50	0.58	--	< 0.50	< 0.50	< 0.50
	02/06/12	ug/l	--	< 0.50	--	--	--	--	--	--
	02/08/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	< 0.50	< 0.50	< 0.50
	03/09/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	< 0.50	< 0.50	< 0.50

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
cis-1,2-Dichloroethylene	07/08/08	ug/l	< 10	< 2.5	--	0.95	--	< 0.50	< 0.50	< 0.50
(6 ug/l MCL)	07/09/08	ug/l	< 10	< 0.50	--	< 5	--	< 0.50	< 0.50	< 0.50
	07/10/08	ug/l	< 5.0	< 0.50	--	0.90	--	< 0.50	< 0.50	< 0.50
	07/15/08	ug/l	< 5.0	< 1.0	--	< 5.0	0.57	< 0.50	< 0.50	< 0.50
	07/16/08	ug/l	< 5.0	< 1.0	--	< 5.0	--	< 0.50	< 0.50	< 0.50
	07/23/08	ug/l	< 10	< 1.0	--	< 5.0	--	< 0.50	< 0.50	< 0.50
	07/30/08	ug/l	< 10	< 1.0	--	< 5.0	--	< 0.50	< 0.50	< 0.50
	08/06/08	ug/l	< 5.0	< 1.0	--	< 5.0	--	< 0.50	< 0.50	< 0.50
	08/25/08	ug/l	< 5.0	< 0.50	--	< 2.5	--	< 0.50	< 0.50	< 0.50
	09/24/08	ug/l	< 2.5	< 0.50	--	< 2.5	--	< 0.50	< 0.50	< 0.50
	10/22/08	ug/l	< 2.5	< 0.50	--	< 1	--	< 0.50	< 0.50	< 0.50
	11/26/08	ug/l	< 2.5	< 0.50	--	< 1	--	< 0.50	< 0.50	< 0.50
	02/25/09	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	3/18/2009	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	4/29/2009	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	5/27/2009	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	6/29/2009	ug/l	0.63	< 0.50	--	< 0.5	--	< 0.50	< 0.50	< 0.50
	07/22/09	ug/l	1.0	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	08/14/09	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	09/11/09	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	10/08/09	ug/l	< 2.5	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	12/09/09	ug/l	< 0.50	< 0.50	--	< 1.0	--	< 0.50	< 0.50	< 0.50
	03/05/10	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
	03/22/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/26/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/01/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/09/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/13/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/10/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/11/10	ug/l	< 2.0	< 1.0	--	--	--	--	--	--
	07/08/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/08/10	ug/l	< 2.0	< 1.0	--	--	--	--	--	--
	10/07/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/11/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/06/10	ug/l	< 5.0	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	< 5	--	--	--	--	--	--	--
	12/07/10	ug/l	--	< 1.0	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/10 Split Sample	ug/l	--	< 5	--	--	--	--	--	--
	01/13/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	02/03/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/11	ug/l	< 5.0	< 0.50	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	2	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/04/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/07/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	07/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/11	ug/l	< 0.50	< 0.50	--	--	--	--	--	--
	09/09/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	10/17/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/01/11	ug/l	< 2.5	< 0.50	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/11	ug/l	< 10	--	< 0.50	< 5.0	--	< 0.50	< 0.50	< 0.50
	01/06/12	ug/l	< 10	--	< 0.50	< 0.50	--	< 0.50	< 0.50	< 0.50
	02/06/12	ug/l	--	< 0.50	--	--	--	--	--	--
	02/08/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	< 0.50	< 0.50	< 0.50
	03/09/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	< 0.50	< 0.50	< 0.50

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Tetrachloroethylene	07/08/08	ug/l	11	2.6	--	7.1	--	0.84	< 0.50	< 0.50
(5 ug/l MCL)	07/09/08	ug/l	10	2.2	--	6.6	--	0.51	< 0.50	< 0.50
	07/10/08	ug/l	12	2.1	--	6.3	--	< 0.50	< 0.50	< 0.50
	07/15/08	ug/l	12	2.3	--	< 5.0	1.8	< 0.50	< 0.50	< 0.50
	07/16/08	ug/l	10	1.8	--	< 5.0	--	< 0.50	< 0.50	< 0.50
	07/23/08	ug/l	< 10	2.3	--	5.8	--	< 0.50	< 0.50	< 0.50
	07/30/08	ug/l	< 10	1.2	--	< 5.0	--	< 0.50	< 0.50	< 0.50
	08/06/08	ug/l	7.0	< 1.0	--	< 5.0	--	0.66	< 0.50	< 0.50
	08/25/08	ug/l	5.1	0.84	--	3.0	--	< 0.50	< 0.50	< 0.50
	09/24/08	ug/l	3.4	0.94	--	< 2.5	--	< 0.50	< 0.50	< 0.50
	10/22/08	ug/l	3.2	0.66	--	2.0	--	< 0.50	< 0.50	< 0.50
	11/26/08	ug/l	2.6	0.63	--	1.9	--	< 0.50	< 0.50	< 0.50
	02/25/09	ug/l	< 2.5	1.1	--	1.6	--	< 0.50	< 0.50	< 0.50
	3/18/2009	ug/l	< 2.5	< 0.50	--	1.3	--	< 0.50	< 0.50	< 0.50
	4/29/2009	ug/l	< 2.5	0.60	--	1.3	--	< 0.50	< 0.50	< 0.50
	5/27/2009	ug/l	< 2.5	0.79	--	1.3	--	< 0.50	< 0.50	< 0.50
	6/29/2009	ug/l	2.1	0.76	--	1.2	--	< 0.50	< 0.50	< 0.50
	07/22/09	ug/l	1.6	0.66	--	1.1	--	< 0.50	< 0.50	< 0.50
	08/14/09	ug/l	< 2.5	< 0.50	--	1.1	--	< 0.50	< 0.50	< 0.50
	09/11/09	ug/l	< 2.5	0.66	--	1.2	--	< 0.50	< 0.50	< 0.50
	10/08/09	ug/l	< 2.5	< 0.50	--	1.1	--	< 0.50	< 0.50	< 0.50
	12/09/09	ug/l	< 0.50	2.0	--	1.1	--	< 0.50	< 0.50	< 0.50
	03/05/10	ug/l	< 1.0	1.9	--	--	--	--	--	--
	03/22/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/26/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/01/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/09/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/13/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/10/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/11/10	ug/l	< 2.0	1.9	--	--	--	--	--	--
	07/08/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/08/10	ug/l	< 2.0	2	--	--	--	--	--	--
	10/07/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/11/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/06/10	ug/l	< 5.0	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	< 5	--	--	--	--	--	--	--
	12/07/10	ug/l	--	1.4	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/10 Split Sample	ug/l	--	< 5	--	--	--	--	--	--
	01/13/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	02/03/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/11	ug/l	8.7	0.82	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	6	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/04/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/07/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	07/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/11	ug/l	5.6	0.67	--	--	--	--	--	--
	09/09/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	10/17/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/01/11	ug/l	5.6	< 0.50	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/11	ug/l	< 10	--	< 0.50	< 5.0	--	< 0.50	< 0.50	< 0.50
	01/06/12	ug/l	< 10	--	< 0.50	1.2	--	< 0.50	< 0.50	< 0.50
	02/06/12	ug/l	--	< 0.50	--	--	--	--	--	--
	02/08/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	< 0.50	< 0.50	< 0.50
	03/09/12	ug/l	< 4.0	--	< 0.50	< 1.0	--	< 0.50	< 0.50	< 0.50

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Trichloroethylene	07/08/08	ug/l	26	< 2.5	--	13	--	0.57	< 0.50	< 0.50
(5 ug/l MCL)	07/09/08	ug/l	25	1.9	--	15	--	< 0.50	< 0.50	< 0.50
	07/10/08	ug/l	23	1.3	--	12	--	< 0.50	< 0.50	< 0.50
	07/15/08	ug/l	30	1.4	--	14	11	< 0.50	< 0.50	< 0.50
	07/16/08	ug/l	26	1.9	--	15	--	< 0.50	< 0.50	< 0.50
	07/23/08	ug/l	24	1.2	--	12	--	< 0.50	< 0.50	< 0.50
	07/30/08	ug/l	20	1.0	--	9.0	--	< 0.50	< 0.50	< 0.50
	08/06/08	ug/l	19	< 1.0	--	10	--	< 0.50	< 0.50	< 0.50
	08/25/08	ug/l	16	0.65	--	8.7	--	< 0.50	< 0.50	< 0.50
	09/24/08	ug/l	16	1.3	--	3.8	--	< 0.50	< 0.50	< 0.50
	10/22/08	ug/l	14	0.54	--	7.3	--	< 0.50	< 0.50	< 0.50
	11/26/08	ug/l	12	0.51	--	8.4	--	< 0.50	< 0.50	< 0.50
	02/25/09	ug/l	12	1.0	--	6.7	--	< 0.50	< 0.50	< 0.50
	3/18/2009	ug/l	11	< 0.50	--	5.6	--	< 0.50	< 0.50	< 0.50
	4/29/2009	ug/l	14	< 0.50	--	6.7	--	< 0.50	< 0.50	< 0.50
	5/27/2009	ug/l	14	0.90	--	7.2	--	< 0.50	< 0.50	< 0.50
	6/29/2009	ug/l	17	0.58	--	8.1	--	< 0.50	< 0.50	< 0.50
	07/22/09	ug/l	16	0.62	--	7.7	--	< 0.50	< 0.50	< 0.50
	08/14/09	ug/l	18	< 0.50	--	8.7	--	< 0.50	< 0.50	< 0.50
	09/11/09	ug/l	14	0.60	--	7.5	--	< 0.50	< 0.50	< 0.50
	10/08/09	ug/l	19	< 0.50	--	9.4	--	< 0.50	< 0.50	< 0.50
	12/09/09	ug/l	12	1.7	--	7.4	--	< 0.50	< 0.50	< 0.50
	03/05/10	ug/l	14	1.6	--	--	--	--	--	--
	03/22/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/26/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/01/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/09/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/13/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	04/23/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/25/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/10/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/11/10	ug/l	22	1.6	--	--	--	--	--	--
	07/08/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/02/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	09/08/10	ug/l	21	2.0	--	--	--	--	--	--
	10/07/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/11/10	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/06/10	ug/l	23	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	10	--	--	--	--	--	--	--
	12/07/10	ug/l	--	1.2	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/10 Split Sample	ug/l	--	< 5	--	--	--	--	--	--
	01/13/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	02/03/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	03/24/11	ug/l	23	0.54	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	18	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	05/04/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	06/07/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	07/02/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/01/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	08/02/11	ug/l	24	0.55	--	--	--	--	--	--
	09/09/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	10/17/11	ug/l	--	--	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	11/01/11	ug/l	22	< 0.50	< 0.50	--	--	< 0.50	< 0.50	< 0.50
	12/07/11	ug/l	20	--	< 0.50	< 5.0	--	< 0.50	< 0.50	< 0.50
	01/06/12	ug/l	13	--	< 0.50	4.3	--	< 0.50	< 0.50	< 0.50
	02/06/12	ug/l	--	< 0.50	--	--	--	--	--	--
	02/08/12	ug/l	11	--	< 0.50	3.4	--	< 0.50	< 0.50	< 0.50
	03/09/12	ug/l	14	--	< 0.50	3.8	--	< 0.50	< 0.50	< 0.50

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
1,4-Dioxane	07/08/08	ug/l	410	490	--	460	--	35	--	--
(1 ug/l California Notification Level)	07/09/08	ug/l	360	410	--	360	--	13	--	--
	07/10/08	ug/l	330	340	--	310	--	6.4	--	--
	07/15/08	ug/l	290	350	--	320	220	3.4	--	--
	07/16/08	ug/l	310	320	--	350	--	3.7	--	--
	07/23/08	ug/l	220	190	--	220	--	5.2	--	--
	07/30/08	ug/l	230	200	--	220	--	6.3	--	--
	08/06/08	ug/l	230	190	--	200	--	18	--	6.8
	08/25/08	ug/l	150	130	--	140	--	10	--	< 0.50
	09/24/08	ug/l	100	74	--	91	--	< 2.0	--	--
	10/22/08	ug/l	95	120	--	120	--	6.4	--	--
	11/26/08	ug/l	74	110	--	91	--	4.5	--	--
	02/25/09	ug/l	83	160	--	120	--	6.4	--	--
	3/18/2009	ug/l	54	70	--	69	--	2.0	--	--
	4/29/2009	ug/l	65	80	--	74	--	2.9	--	--
	5/27/2009	ug/l	71	150	--	110	--	2.5	--	--
	6/29/2009	ug/l	68	120	--	87	--	2.4	--	--
	07/22/09	ug/l	65	120	--	100	--	< 2.0	--	--
	08/14/09	ug/l	72	81	--	80	--	2.0	--	--
	09/11/09	ug/l	63	120	--	90	--	2.6	--	--
	10/08/09	ug/l	76	87	--	82	--	< 2.0	--	--
	12/09/09	ug/l	11	490	--	180	--	4.3	--	--
	03/05/10	ug/l	21	370	--	--	--	--	--	--
	03/22/10	ug/l	--	--	22	--	--	< 2.0	--	--
	03/23/10	ug/l	--	--	24	--	--	< 2.0	--	--
	03/24/10	ug/l	--	--	25	--	--	< 2.0	--	--
	03/25/10	ug/l	--	--	22	--	--	< 2.0	--	--
	03/26/10	ug/l	--	--	19	--	--	6	--	--
	04/01/10	ug/l	--	--	29	--	--	< 2.0	--	--
	04/09/10	ug/l	--	--	31	--	--	< 2.0	--	--
	04/13/10	ug/l	--	--	43	--	--	< 2.0	--	--
	04/23/10	ug/l	--	--	35	--	--	< 2.0	--	--
	05/25/10	ug/l	--	--	38	--	--	< 2.0	--	--
	06/10/10	ug/l	--	--	40	--	--	< 2.0	--	--
	06/11/10	ug/l	40	400	--	--	--	--	--	--
	07/08/10	ug/l	--	--	48	--	--	< 2.0	--	--
	08/02/10	ug/l	--	--	42	--	--	< 2.0	--	--
	09/02/10	ug/l	--	--	42	--	--	< 2.0	--	--
	09/08/10	ug/l	74	370	--	--	--	--	--	--
	10/07/10	ug/l	--	--	39	--	--	< 2.0	--	--
	11/11/10	ug/l	--	--	33	--	--	< 2.0	--	--
	12/06/10	ug/l	250	--	--	--	--	--	--	--
	12/06/10 Split Sample	ug/l	360	--	--	--	--	--	--	--
	12/07/10	ug/l	--	220	29	--	--	< 2.0	--	--
	12/07/10 Split Sample	ug/l	--	290	--	--	--	--	--	--
	01/13/11	ug/l	--	--	29	--	--	6.4	--	--
	02/03/11	ug/l	--	--	22	--	--	< 2.0	--	--
	03/02/11	ug/l	--	--	16	--	--	0.43	--	--
	03/24/11	ug/l	93	64	--	--	--	--	--	--
	03/24/11 Split Sample	ug/l	560	--	--	--	--	--	--	--
	04/01/11	ug/l	--	--	16	--	--	0.36	--	--
	05/04/11	ug/l	--	--	19	--	--	0.35	--	--
	06/07/11	ug/l	--	--	20	--	--	0.91	--	--
	07/02/11	ug/l	--	--	18	--	--	0.46	--	--
	08/01/11	ug/l	--	--	21	--	--	0.56	--	--
	08/02/11	ug/l	360	80	--	--	--	--	--	--
	09/09/11	ug/l	--	--	20	--	--	0.49	--	--
	10/17/11	ug/l	--	--	19	--	--	0.36	--	--
	11/01/11	ug/l	390	54	22	--	--	0.33	--	--
	12/07/11	ug/l	450	--	20	120	--	5.2	--	--
	01/06/12	ug/l	120	--	15	42	--	1.1	--	--
	02/06/12	ug/l	--	11	--	--	--	--	--	--
	02/08/12	ug/l	33	--	6.4	10	--	0.64	--	--
	03/09/12	ug/l	61	--	12	25	--	0.85	--	--

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Bromide	07/08/08	ug/l	1,100	600	--	830	680	800	--	590
	07/09/08	ug/l	830	460	--	610	--	610	--	610
	07/10/08	ug/l	820	470	--	640	--	600	--	620
	07/15/08	ug/l	890	450	--	680	690	610	--	760
	07/16/08	ug/l	640	490	--	830	--	600	--	600
	07/23/08	ug/l	910	670	--	1,100	--	830	--	960
	07/30/08	ug/l	3,100	1,300	--	2,400	--	2,600	--	2,700
	08/06/08	ug/l	910	560	--	590	--	590	--	780
	08/25/08	ug/l	870	390	--	620	--	590	--	580
	09/24/08	ug/l	710	320	--	510	--	490	--	550
	10/22/08	ug/l	970	610	--	750	--	700	--	700
	11/26/08	ug/l	1,100	740	--	1,000	--	1,000	--	880
	02/25/09	ug/l	2,000	410	--	580	--	580	--	570
	3/18/2009	ug/l	900	440	--	670	--	660	--	610
	4/29/2009	ug/l	960	380	--	650	--	650	--	720
	5/27/2009	ug/l	1,000	380	--	660	--	670	--	680
	6/29/2009	ug/l	1,200	300	--	560	--	630	--	650
	07/22/09	ug/l	1,100	430	--	870	--	820	--	830
	08/14/09	ug/l	1,600	480	--	1,100	--	1,100	--	1,100
	09/11/09	ug/l	970	490	--	620	--	590	--	1,000
	10/08/09	ug/l	1,100	420	--	910	--	770	--	820
	12/09/09	ug/l	1,400	540	--	920	--	880	--	980
	03/22/10	ug/l	--	--	360	--	--	350	--	360
	03/23/10	ug/l	--	--	360	--	--	350	--	330
	03/24/10	ug/l	--	--	340	--	--	330	--	320
	03/25/10	ug/l	--	--	320	--	--	320	--	320
	03/26/10	ug/l	--	--	330	--	--	310	--	310
	04/01/10	ug/l	--	--	360	--	--	310	--	340
	04/09/10	ug/l	--	--	310	--	--	300	--	290
	04/13/10	ug/l	--	--	370	--	--	330	--	320
	04/23/10	ug/l	--	--	300	--	--	380	--	300
	05/25/10	ug/l	--	--	450	--	--	330	--	340
	06/10/10	ug/l	--	--	340	--	--	330	--	330
	07/08/10	ug/l	--	--	300	--	--	330	--	330
	08/02/10	ug/l	--	--	270	--	--	280	--	280
	09/02/10	ug/l	--	--	250	--	--	270	--	230
	10/07/10	ug/l	--	--	250	--	--	260	--	250
	11/11/10	ug/l	--	--	200	--	--	190	--	180
	12/07/10	ug/l	--	--	280	--	--	270	--	280
	01/13/11	ug/l	--	--	250	--	--	240	--	260
	02/03/11	ug/l	--	--	220	--	--	220	--	220
	03/02/11	ug/l	--	--	230	--	--	230	--	220
	04/01/11	ug/l	--	--	160	--	--	150	--	160
	05/04/11	ug/l	--	--	3,000	--	--	3,000	--	3,200
	06/07/11	ug/l	--	--	3,200	--	--	3,300	--	3,200
	07/02/11	ug/l	--	--	640	--	--	650	--	640
	08/01/11	ug/l	--	--	2,300	--	--	2,300	--	2,300
	09/09/11	ug/l	--	--	480	--	--	500	--	520
	10/17/11	ug/l	--	--	480	--	--	470	--	470
	11/01/11	ug/l	--	--	430	--	--	420	--	430
	12/07/11	ug/l	510	--	150	230	--	240	--	230
	01/06/12	ug/l	3,500	--	800	1,400	--	1,500	--	1,400
	02/08/12	ug/l	1,100	--	230	460	--	430	--	440
	03/09/12	ug/l	1,200	--	210	440	--	440	--	440

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Bromate	07/08/08	ug/l	< 4	< 4	--	< 4	< 0.50	< 4	--	< 4
(10 ug/l MCL)	07/09/08	ug/l	< 4	< 4	--	< 4	--	19	--	< 4
	07/10/08	ug/l	< 4	< 4	--	6.0	--	44	--	18
	07/15/08	ug/l	< 4	< 4	--	< 4	< 4	77	--	< 4
	07/16/08	ug/l	< 4	< 4	--	< 4	--	61	--	47
	07/23/08	ug/l	< 4	< 4	--	< 4	--	< 4	--	63
	07/30/08	ug/l	< 4	< 4	--	< 4	--	< 4	--	23
	08/06/08	ug/l	< 4	< 4	--	< 4	--	5.0	--	< 4
	08/25/08	ug/l	< 5.0	< 5.0	--	< 5.0	--	7.8	--	17
	09/24/08	ug/l	< 0.5	< 0.5	--	< 0.5	--	59	--	39
	10/22/08	ug/l	< 0.5	< 0.5	--	< 5	--	< 25	--	< 5
	11/26/08	ug/l	< 4	< 4	--	< 4	--	< 4	--	< 4
	02/25/09	ug/l	< 4	< 4	--	< 4	--	5.0	--	< 4
	3/18/2009	ug/l	< 4	< 4	--	< 4	--	22	--	7.0
	4/29/2009	ug/l	< 4	< 4	--	6.0	--	31	--	34
	5/27/2009	ug/l	< 4	< 4	--	< 4	--	24	--	26
	6/29/2009	ug/l	< 4	< 4	--	< 4	--	18	--	15
	07/22/09	ug/l	< 4	< 4	--	< 4	--	15	--	26
	08/14/09	ug/l	< 4	< 4	--	< 4	--	< 4	--	39
	09/11/09	ug/l	< 4	< 4	--	< 4	--	9.0	--	22
	10/08/09	ug/l	< 4	< 4	--	< 4	--	17	--	24
	12/09/09	ug/l	< 4	< 4	--	< 4	--	18	--	23
	03/22/10	ug/l	--	--	< 0.9	--	--	13.1	--	4.2
	03/23/10	ug/l	--	--	< 0.5	--	--	16.4	--	30.1
	03/24/10	ug/l	--	--	< 0.5	--	--	10.5	--	12.4
	03/25/10	ug/l	--	--	< 0.5	--	--	11.6	--	10.3
	03/26/10	ug/l	--	--	< 0.5	--	--	8.7	--	5.3
	04/01/10	ug/l	--	--	< 0.5	--	--	12.7	--	< 0.5
	04/09/10	ug/l	--	--	< 0.5	--	--	9.6	--	10.5
	04/13/10	ug/l	--	--	< 0.5	--	--	7.3	--	8.4
	04/23/10	ug/l	--	--	< 0.5	--	--	7.4	--	7.0
	05/25/10	ug/l	--	--	< 0.5	--	--	6.8	--	7.0
	06/10/10	ug/l	--	--	< 0.5	--	--	7.7	--	6.6
	07/08/10	ug/l	--	--	0.6	--	--	7.3	--	6.7
	08/02/10	ug/l	--	--	< 0.5	--	--	6.8	--	6.8
	09/02/10	ug/l	--	--	< 0.5	--	--	7.0	--	7.3
	10/07/10	ug/l	--	--	< 0.5	--	--	10.9	--	7.1
	11/11/10	ug/l	--	--	< 0.5	--	--	7	--	11
	12/07/10	ug/l	--	--	< 0.5	--	--	4.8	--	3.5
	01/13/11	ug/l	--	--	< 0.5	--	--	9.3	--	7.3
	1/13/2011 Duplicate Sample	ug/l	--	--	--	--	--	--	--	7.9
	02/03/11	ug/l	--	--	< 0.5	--	--	7.2	--	7.0
	2/3/11 Duplicate Sample	ug/l	--	--	--	--	--	--	--	7.0
	03/02/11	ug/l	--	--	< 0.5	--	--	10.2	--	8.4
	04/01/11	ug/l	--	--	< 0.5	--	--	7.9	--	7.3
	05/04/11	ug/l	--	--	< 0.5	--	--	8.6	--	8.0
	06/07/11	ug/l	--	--	< 0.5	--	--	8.0	--	3.2
	07/02/11	ug/l	--	--	< 0.5	--	--	6.5	--	4.1
	08/01/11	ug/l	--	--	< 0.5	--	--	6.4	--	5.5
	09/09/11	ug/l	--	--	< 0.5	--	--	8.1	--	11.9
	10/17/11	ug/l	--	--	< 0.5	--	--	9.9	--	8.9
	Duplicate	ug/l	--	--	--	--	--	--	--	9.1
	11/01/11	ug/l	--	--	< 0.5	--	--	11.9	--	7.9
	12/07/11	ug/l	< 0.4	--	< 0.4	< 0.4	--	12.3	--	9.3
	01/06/12	ug/l	0.7	--	< 0.5	1.0	--	14	--	7.3
	02/08/12	ug/l	< 0.5	--	< 0.5	< 0.5	--	14	--	7.3
	03/09/12	ug/l	< 0.5	--	< 0.5	< 0.5	--	12	--	12.1
	03/09/12 duplicate	ug/l	--	--	--	--	--	--	--	12.4

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Total Non-Filterable Residue	07/08/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	07/09/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	07/10/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	07/15/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	07/16/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	07/23/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	07/30/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	08/06/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	08/25/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	09/24/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	10/22/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	11/26/08	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	02/25/09	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	3/18/2009	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	4/29/2009	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	5/27/2009	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	6/29/2009	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	07/22/09	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	08/14/09	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	09/11/09	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	10/08/09	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	12/09/09	mg/l	< 10	< 10	--	< 10	< 10	--	--	--
	03/22/10	mg/l	--	--	< 10	--	< 10	--	--	--
	05/25/10	mg/l	--	--	< 10	--	< 10	--	--	--
	06/10/10	mg/l	--	--	< 10	--	< 10	--	--	--
	07/08/10	mg/l	--	--	< 10	--	< 10	--	--	--
	08/02/10	mg/l	--	--	< 10	--	< 10	--	--	--
	09/10/10	mg/l	--	--	< 10	--	< 10	--	--	--
	10/07/10	mg/l	--	--	< 10	--	< 10	--	--	--
	11/11/10	mg/l	--	--	< 10	--	< 10	--	--	--
	12/07/10	mg/l	--	--	< 10	--	< 10	--	--	--
	01/13/11	mg/l	--	--	< 10	--	< 10	--	--	--
	02/03/11	mg/l	--	--	< 10	--	< 10	--	--	--
	03/02/11	mg/l	--	--	< 10	--	< 10	--	--	--
	04/01/11	mg/l	--	--	< 10	--	< 10	--	--	--
	05/04/11	mg/l	--	--	< 10	--	< 10	--	--	--
	06/07/11	mg/l	--	--	< 10	--	< 10	--	--	--
	07/02/11	mg/l	--	--	< 10	--	< 10	--	--	--
	08/01/11	mg/l	--	--	< 10	--	< 10	--	--	--
	09/09/11	mg/l	--	--	< 10	--	< 10	--	--	--
	10/17/11	mg/l	--	--	< 10	--	< 10	--	--	--
	11/01/11	mg/l	--	--	< 10	--	< 10	--	--	--
	12/07/11	mg/l	17	--	< 10	< 10	< 10	--	--	--
	01/06/12	mg/l	< 10	--	< 10	< 10	< 10	--	--	--
	02/08/12	mg/l	< 12	--	< 10	< 10	< 10	--	--	--
	03/09/12	mg/l	< 10	--	< 10	< 10	< 10	--	--	--

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Total Filterable Residue	07/08/08	mg/l	1,000	770	--	870	--	880	--	--
(500 mg/l MCL)	07/09/08	mg/l	1,100	830	--	930	--	960	--	--
	07/10/08	mg/l	1,100	830	--	970	--	950	--	--
	07/15/08	mg/l	1,200	840	--	1,000	--	1,000	--	--
	07/16/08	mg/l	1,200	890	--	1,100	--	1,000	--	--
	07/23/08	mg/l	1,100	850	--	980	--	940	--	--
	07/30/08	mg/l	1,100	800	--	910	--	890	--	--
	08/06/08	mg/l	940	710	--	810	--	810	--	--
	08/25/08	mg/l	1,000	740	--	860	--	870	--	--
	09/24/08	mg/l	960	770	--	810	--	840	--	830
	10/22/08	mg/l	910	790	--	860	--	860	--	850
	11/26/08	mg/l	870	770	--	840	--	850	--	860
	02/25/09	mg/l	840	770	--	810	--	840	--	860
	3/18/2009	mg/l	890	780	--	830	--	840	--	860
	4/29/2009	mg/l	1,000	800	--	930	--	910	--	940
	5/27/2009	mg/l	1,200	790	--	910	--	910	--	880
	6/29/2009	mg/l	1,100	740	--	920	--	830	--	880
	07/22/09	mg/l	1,100	800	--	940	--	620	--	930
	08/14/09	mg/l	1,200	770	--	950	--	920	--	940
	09/11/09	mg/l	1,200	810	--	1,000	--	940	--	1,300
	10/08/09	mg/l	1,100	790	--	950	--	940	--	960
	12/09/09	mg/l	1,200	820	--	1,100	--	1,100	--	1,100
	03/22/10	mg/l	--	--	730	--	--	--	--	--
	05/25/10	mg/l	--	--	660	--	--	660	--	650
	06/10/10	mg/l	--	--	670	--	--	670	--	660
	07/08/10	mg/l	--	--	660	--	--	650	--	660
	08/02/10	mg/l	--	--	660	--	--	650	--	660
	09/10/10	mg/l	--	--	650	--	--	650	--	640
	10/07/10	mg/l	--	--	700	--	--	680	--	700
	11/11/10	mg/l	--	--	660	--	--	650	--	660
	12/07/10	mg/l	--	--	660	--	--	650	--	660
	01/13/11	mg/l	--	--	670	--	--	680	--	670
	02/03/11	mg/l	--	--	670	--	--	710	--	700
	03/02/11	mg/l	--	--	660	--	--	670	--	680
	04/01/11	mg/l	--	--	650	--	--	650	--	640
	05/04/11	mg/l	--	--	680	--	--	690	--	680
	06/07/11	mg/l	--	--	660	--	--	650	--	650
	07/02/11	mg/l	--	--	650	--	--	630	--	640
	08/01/11	mg/l	--	--	640	--	--	650	--	650
	09/09/11	mg/l	--	--	670	--	--	670	--	660
	10/17/11	mg/l	--	--	630	--	--	640	--	640
	11/01/11	mg/l	--	--	640	--	--	630	--	640
	12/07/11	mg/l	1,200	--	640	760	--	750	--	770
	01/06/12	mg/l	1,200	--	640	760	--	780	--	770
	02/08/12	mg/l	1,300	--	630	790	--	790	--	810
	03/09/12	mg/l	1,400	--	630	800	--	780	--	830

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Total Calcium	03/22/10	mg/l	--	--	110	--	--	--	--	--
Dissolved Calcium	03/22/10	mg/l	--	--	110	--	--	--	--	--
	06/10/10	mg/l	--	--	110	--	--	--	--	--
	09/02/10	mg/l	--	--	83	--	--	--	--	--
	12/07/10	mg/l	--	--	100	--	--	--	--	--
	03/02/11	mg/l	--	--	99	--	--	--	--	--
	06/07/11	mg/l	--	--	98	--	--	--	--	--
	09/09/11	mg/l	--	--	90	--	--	--	--	--
	12/07/11	mg/l	160	--	96	120	--	--	--	--
	03/09/12	mg/l	190	--	85	100	--	--	--	--
Total Iron	03/22/10	mg/l	--	--	< 0.50	--	--	--	--	--
Dissolved Iron	03/22/10	mg/l	--	--	< 0.50	--	--	--	--	--
	06/10/10	mg/l	--	--	< 0.50	--	--	--	--	--
	09/02/10	mg/l	--	--	< 0.50	--	--	--	--	--
	12/07/10	mg/l	--	--	< 0.50	--	--	--	--	--
	03/02/11	mg/l	--	--	< 0.50	--	--	--	--	--
	06/07/11	mg/l	--	--	< 0.50	--	--	--	--	--
	09/09/11	mg/l	--	--	< 0.50	--	--	--	--	--
	12/07/11	mg/l	< 0.50	--	< 0.50	< 0.50	--	--	--	--
	03/09/12	mg/l	< 0.50	--	< 0.50	< 0.50	--	--	--	--
Total Magnesium	03/22/10	mg/l	--	--	32	--	--	--	--	--
Dissolved Magnesium	03/22/10	mg/l	--	--	30	--	--	--	--	--
	06/10/10	mg/l	--	--	33	--	--	--	--	--
	09/02/10	mg/l	--	--	26	--	--	--	--	--
	12/07/10	mg/l	--	--	32	--	--	--	--	--
	03/02/11	mg/l	--	--	32	--	--	--	--	--
	06/07/11	mg/l	--	--	31	--	--	--	--	--
	09/09/11	mg/l	--	--	28	--	--	--	--	--
	12/07/11	mg/l	45	--	30	35	--	--	--	--
	03/09/12	mg/l	52	--	26	30	--	--	--	--
Total Manganese	03/22/10	mg/l	--	--	< 0.50	--	--	--	--	--
Dissolved Manganese	03/22/10	mg/l	--	--	< 0.50	--	--	--	--	--
	06/10/10	mg/l	--	--	< 0.50	--	--	--	--	--
	09/02/10	mg/l	--	--	< 0.50	--	--	--	--	--
	12/07/10	mg/l	--	--	< 0.50	--	--	--	--	--
	03/02/11	mg/l	--	--	< 0.50	--	--	--	--	--
	06/07/11	mg/l	--	--	< 0.50	--	--	--	--	--
	09/09/11	mg/l	--	--	< 0.50	--	--	--	--	--
	12/07/11	mg/l	< 0.50	--	< 0.50	< 0.50	--	--	--	--
	03/09/12	mg/l	< 0.50	--	< 0.50	< 0.50	--	--	--	--
Total Sodium	03/22/10	mg/l	--	--	87	--	--	--	--	--
Dissolved Sodium	03/22/10	mg/l	--	--	95	--	--	--	--	--
	06/10/10	mg/l	--	--	110	--	--	--	--	--
	09/02/10	mg/l	--	--	71	--	--	--	--	--
	12/07/10	mg/l	--	--	78	--	--	--	--	--
	03/02/11	mg/l	--	--	86	--	--	--	--	--
	06/07/11	mg/l	--	--	80	--	--	--	--	--
Total Selenium	08/25/08	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
(0.05 mg/l MCL)	09/24/08	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	10/22/08	mg/l	< 0.01	0.012	--	0.012	--	--	--	--
	11/26/08	mg/l	< 0.01	0.013	--	0.011	--	--	--	--
	02/25/09	mg/l	0.010	< 0.010	--	< 0.010	--	--	--	--
	3/18/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	4/29/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	5/27/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	6/29/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	07/22/09	mg/l	0.013	< 0.010	--	0.012	--	--	--	--
	08/14/09	mg/l	< 0.010	< 0.010	--	0.010	--	--	--	--
	09/11/09	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	10/08/09	mg/l	0.012	0.011	--	0.012	--	--	--	--
	12/09/09	mg/l	0.013	0.01	--	0.014	--	--	--	--
	06/10/10	mg/l	--	--	< 0.010	--	--	--	--	--
	09/02/10	mg/l	--	--	0.010	--	--	--	--	--
	12/07/10	mg/l	--	--	< 0.010	--	--	--	--	--

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Dissolved Selenium	08/25/08	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
(0.05 mg/l MCL)	09/24/08	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	10/22/08	mg/l	< 0.01	< 0.01	--	< 0.01	--	--	--	--
	11/26/08	mg/l	< 0.01	0.010	--	< 0.01	--	--	--	--
	02/25/09	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	3/18/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	4/29/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	5/27/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	6/29/2009	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	07/22/09	mg/l	0.015	< 0.010	--	< 0.010	--	--	--	--
	08/14/09	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	09/11/09	mg/l	< 0.010	< 0.010	--	< 0.010	--	--	--	--
	10/08/09	mg/l	0.012	0.011	--	0.010	--	--	--	--
	12/09/09	mg/l	0.013	0.011	--	0.010	--	--	--	--
	06/10/10	mg/l	--	--	< 0.010	--	--	--	--	--
	09/02/10	mg/l	--	--	< 0.010	--	--	--	--	--
	12/07/10	mg/l	--	--	< 0.010	--	--	--	--	--
	03/02/11	mg/l	--	--	< 0.010	--	--	--	--	--
	06/07/11	mg/l	--	--	< 0.010	--	--	--	--	--
	09/09/11	mg/l	--	--	< 0.010	--	--	--	--	--
	12/07/11	mg/l	0.01	--	0.01	0.010	--	--	--	--
	03/09/12	mg/l	< 0.01	--	< 0.01	< 0.01	--	--	--	--
Alkalinity, Bicarbonate (As CaCO3)	08/25/08	mg/l	250	300	--	280	--	--	--	--
	11/26/08	mg/l	230	280	--	250	--	--	--	--
	3/18/2009	mg/l	230	290	--	250	--	--	--	--
	6/29/2009	mg/l	250	270	--	260	--	--	--	--
	09/11/09	mg/l	250	270	--	260	--	--	--	--
	12/09/09	mg/l	260	270	--	270	--	--	--	--
	03/22/10	mg/l	--	--	260	--	--	--	--	--
	06/10/10	mg/l	--	--	240	--	--	--	--	--
	09/02/10	mg/l	--	--	230	--	--	--	--	--
	12/07/10	mg/l	--	--	240	--	--	--	--	--
	03/02/11	mg/l	--	--	220	--	--	--	--	--
	06/07/11	mg/l	--	--	220	--	--	--	--	--
	09/09/11	mg/l	--	--	230	--	--	--	--	--
	12/07/11	mg/l	234	--	220	228	--	--	--	--
	03/09/12	mg/l	290	--	227	250	--	--	--	--
Alkalinity, Carbonate (As CaCO3)	08/25/08	mg/l	< 5.0	< 5.0	--	< 5.0	--	--	--	--
	11/26/08	mg/l	< 5.0	< 5.0	--	< 5.0	--	--	--	--
	3/18/2009	mg/l	< 5.0	< 5.0	--	< 5.0	--	--	--	--
	6/29/2009	mg/l	< 5.0	< 5.0	--	< 5.0	--	--	--	--
	09/11/09	mg/l	< 5.0	< 5.0	--	< 5.0	--	--	--	--
	12/09/09	mg/l	< 5.0	< 5.0	--	< 5.0	--	--	--	--
	03/22/10	mg/l	--	--	< 5.0	--	--	--	--	--
	06/10/10	mg/l	--	--	< 5.0	--	--	--	--	--
	09/02/10	mg/l	--	--	< 5.0	--	--	--	--	--
	12/07/10	mg/l	--	--	< 5.0	--	--	--	--	--
	03/02/11	mg/l	--	--	< 5.0	--	--	--	--	--
	06/07/11	mg/l	--	--	< 5.0	--	--	--	--	--
	09/09/11	mg/l	--	--	< 5.0	--	--	--	--	--
	12/07/11	mg/l	< 2.0	--	< 2.0	< 2.0	--	--	--	--
	03/09/12	mg/l	< 2.0	--	< 2.0	< 2.0	--	--	--	--

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Alkalinity, Hydroxide (As CaCO3)	08/25/08	mg/l	< 5.0	< 5.0	--	--	--	--	--	--
	11/26/08	mg/l	< 5.0	< 5.0	--	--	--	--	--	--
	3/18/2009	mg/l	< 5.0	< 5.0	--	--	--	--	--	--
	6/29/2009	mg/l	< 5.0	< 5.0	--	--	--	--	--	--
	09/11/09	mg/l	< 5.0	< 5.0	--	--	--	--	--	--
	12/09/09	mg/l	< 5.0	< 5.0	--	--	--	--	--	--
	03/22/10	mg/l	--	--	< 5.0	--	--	--	--	--
	06/10/10	mg/l	--	--	< 5.0	--	--	--	--	--
	09/02/10	mg/l	--	--	< 5.0	--	--	--	--	--
	12/07/10	mg/l	--	--	< 5.0	--	--	--	--	--
	03/02/11	mg/l	--	--	< 5.0	--	--	--	--	--
	06/07/11	mg/l	--	--	< 5.0	--	--	--	--	--
	09/09/11	mg/l	--	--	< 5.0	--	--	--	--	--
	12/07/11	mg/l	< 2.0	--	< 2.0	< 2.0	--	--	--	--
	03/09/12	mg/l	< 2.0	--	< 2.0	< 2.0	--	--	--	--
Alkalinity, Total (As CaCO3)	08/25/08	mg/l	250	300	--	280	--	--	--	--
	11/26/08	mg/l	230	280	--	250	--	--	--	--
	3/18/2009	mg/l	230	290	--	250	--	--	--	--
	6/29/2009	mg/l	250	270	--	260	--	--	--	--
	09/11/09	mg/l	250	270	--	260	--	--	--	--
	12/09/09	mg/l	260	270	--	270	--	--	--	--
	03/22/10	mg/l	--	--	260	--	--	--	--	--
	06/10/10	mg/l	--	--	240	--	--	--	--	--
	09/02/10	mg/l	--	--	230	--	--	--	--	--
	12/07/10	mg/l	--	--	240	--	--	--	--	--
	03/02/11	mg/l	--	--	220	--	--	--	--	--
	06/07/11	mg/l	--	--	220	--	--	--	--	--
	09/09/11	mg/l	--	--	230	--	--	--	--	--
	12/07/11	mg/l	234	--	220	228	--	--	--	--
	03/09/12	mg/l	290	--	227	250	--	--	--	--
Chemical Oxygen Demand	08/25/08	mg/l	< 5.0	< 5.0	--	< 5.0	--	45	--	6.4
	11/26/08	mg/l	< 5.0	< 5.0	--	5.0	--	33	--	< 5.0
	3/18/2009	mg/l	< 5.0	< 5.0	--	< 5.0	--	26	--	< 5.0
	6/29/2009	mg/l	14	< 5.0	--	6.4	--	34	--	7.3
	09/11/09	mg/l	6.9	7.5	--	9.0	--	32	--	7.7
	12/09/09	mg/l	17	6.1	--	< 5.0	--	23	--	7.1
	03/22/10	mg/l	--	--	< 5.0	--	--	--	--	--
	06/10/10	mg/l	--	--	< 5.0	--	--	14	--	--
	09/02/10	mg/l	--	--	< 5.0	--	--	22	--	--
	12/07/10	mg/l	--	--	9.8	--	--	18	--	--
	03/02/11	mg/l	--	--	< 5.0	--	--	13	--	--
	06/07/11	mg/l	--	--	10	--	--	12	--	--
	09/09/11	mg/l	--	--	9.0	--	--	38	--	--
	12/07/11	mg/l	11.0	--	< 4.8	6.5	--	18.5	--	--
	03/09/12	mg/l	< 5.0	--	< 5.0	6.0	--	10.3	--	--
Organic Carbon, Total	08/25/08	mg/l	< 3.0	< 3.0	--	< 3.0	--	< 3.0	--	< 3.0
	11/26/08	mg/l	< 3.0	< 3.0	--	< 3.0	--	< 3.0	--	< 3
	3/18/2009	mg/l	< 3.0	4.1	--	< 3.0	--	3.9	--	< 3.0
	6/29/2009	mg/l	3.6	< 3.0	--	< 3.0	--	< 3.0	--	3.1
	09/11/09	mg/l	< 3.0	< 3.0	--	< 3.0	--	< 3.0	--	< 3.0
	12/09/09	mg/l	< 3.0	< 3.0	--	< 3.0	--	< 3.0	--	< 3.0
	03/22/10	mg/l	--	--	< 3.0	--	--	--	--	--
	06/10/10	mg/l	--	--	< 3.0	--	--	< 3.0	--	--
	09/02/10	mg/l	--	--	< 3.0	--	--	< 3.0	--	--
	12/07/10	mg/l	--	--	6.5	--	--	6	--	--
	03/02/11	mg/l	--	--	< 3.0	--	--	< 3.0	--	--
	06/07/11	mg/l	--	--	< 3.0	--	--	< 3.0	--	--
	09/09/11	mg/l	--	--	< 3.0	--	--	< 3.0	--	--
	12/07/11	mg/l	0.7	--	< 3.0	< 3.0	--	< 3.0	--	--
	03/09/12	mg/l	< 3.0	--	< 3.0	< 3.0	--	< 3.0	--	--

TABLE 7

SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES

Compound	Date	Units	MW-21	EW-01	EW-02	INF*	PF	POX	CBT	CEFF
Chloride	03/22/10	mg/l	--	--	110	--	--	--	--	--
	06/10/10	mg/l	--	--	120	--	--	110	--	--
	09/02/10	mg/l	--	--	110	--	--	120	--	--
	12/07/10	mg/l	--	--	110	--	--	110	--	--
	03/02/11	mg/l	--	--	100	--	--	110	--	--
	06/07/11	mg/l	--	--	110	--	--	110	--	--
	09/09/11	mg/l	--	--	110	--	--	110	--	--
	12/07/11	mg/l	220	--	82	140	--	140	--	--
	03/09/12	mg/l	450	--	97	190	--	190	--	--
Sulfate	03/22/10	mg/l	--	--	140	--	--	--	--	--
	06/10/10	mg/l	--	--	150	--	--	140	--	--
	09/02/10	mg/l	--	--	130	--	--	130	--	--
	12/07/10	mg/l	--	--	130	--	--	130	--	--
	03/02/11	mg/l	--	--	130	--	--	130	--	--
	06/07/11	mg/l	--	--	120	--	--	130	--	--
	09/09/11	mg/l	--	--	130	--	--	140	--	--
	12/07/11	mg/l	62	--	100	100	--	100	--	--
	03/09/12	mg/l	120	--	140	130	--	140	--	--
Nitrate	03/22/10	mg/l	--	--	7.4	--	--	--	--	--
	06/10/10	mg/l	--	--	5.5	--	--	< 0.10	--	--
	09/02/10	mg/l	--	--	5.3	--	--	5.3	--	--
	12/07/10	mg/l	--	--	5.7	--	--	5.6	--	--
	03/02/11	mg/l	--	--	5.3	--	--	5.5	--	--
	06/07/11	mg/l	--	--	5.5	--	--	5.5	--	--
	09/09/11	mg/l	--	--	5.6	--	--	5.6	--	--
	12/07/11	mg/l	7.0	--	5.1	5.6	--	5.6	--	--
	03/09/12	mg/l	10	--	5.0	6.3	--	6.3	--	--
Nitrite	03/22/10	mg/l	--	--	< 0.10	--	--	--	--	--
	06/10/10	mg/l	--	--	< 0.10	--	--	< 0.10	--	--
	09/02/10	mg/l	--	--	< 0.10	--	--	< 0.10	--	--
	12/07/10	mg/l	--	--	< 0.10	--	--	< 0.10	--	--
	03/02/11	mg/l	--	--	< 0.10	--	--	< 0.10	--	--
	06/07/11	mg/l	--	--	< 0.10	--	--	< 0.10	--	--
	09/09/11	mg/l	--	--	< 0.10	--	--	< 0.10	--	--
	12/07/11	mg/l	< 0.20	--	< 0.10	< 0.10	--	< 0.10	--	--
	03/09/12	mg/l	< 0.20	--	< 0.10	< 0.10	--	< 0.10	--	--
Phosphate	03/22/10	mg/l	--	--	< 0.050	--	--	--	--	--
	06/10/10	mg/l	--	--	< 0.050	--	--	< 0.050	--	--
	09/02/10	mg/l	--	--	< 0.050	--	--	< 0.050	--	--
	12/07/10	mg/l	--	--	< 0.050	--	--	< 0.050	--	--
	03/02/11	mg/l	--	--	< 0.050	--	--	< 0.050	--	--
	06/07/11	mg/l	--	--	< 0.050	--	--	< 0.050	--	--
	09/09/11	mg/l	--	--	< 0.050	--	--	< 0.050	--	--
	12/07/11	mg/l	< 0.10	--	< 0.05	< 0.05	--	< 0.05	--	--
	03/09/12	mg/l	< 0.10	--	< 0.05	< 0.05	--	< 0.05	--	--

FOOTNOTES

MCL = Maximum Contaminant Level or Drinking Water Action Level, if applicable
ug/l = Micrograms per liter
mg/l = Milligrams per liter
-- = Not scheduled for performance monitoring
(<) = Less than; the value is the Limit of Detection

INF* = Influent (same as EW-02, when active)
PF= Post Particulate Filter
POX = Post Hipox Oxidation
CBT= Carbon Breakthrough
CEFF = Carbon Effluent
CaCO3 = Calcium carbonate

TABLE 8

PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM OPERATIONAL SUMMARY

OPERATIONAL PERIOD (MONTH/QUARTER/YEAR)	WELLFIELD PRODUCTION[a] (gallons)	AVERAGE DISCHARGE RATE[b] (gpm)	AVERAGE OPERATIONAL DISCHARGE RATE[c] (gpm)	OPERATIONAL HOURS DURING OPERATIONAL PERIOD	HOURS IN OPERATIONAL PERIOD	% OPERATIONAL
2008[d]	3,659,562	13.8	18.2	3,358	4,416	76%
2009	5,787,848	11.0	18.1	5,319	8,760	61%
2010	14,295,261	27.2	46.4	5,131	8,760	59%
2011	20,456,899	38.9	45.8	7,442	8,760	85%
Jan-12	1,782,817	39.9	45.2	658	744	88%
Feb-12	1,916,256	45.9	48.1	663	696	95%
Mar-12	1,562,211	35.0	48.2	541	744	73%
1Q2012	5,261,283	40.2	47.1	1,862	2,184	85%
SINCE INCEPTION	49,460,853	25.1	35.7	23,112	32,880	70%

Notes:

(a) Based on Effluent totalizer readings from CEFF.

(b) Total volume of water treated during the operational period divided by the total number of minutes in that operational period.

(c) Total volume of water treated during the operational period divided by the minutes of operation in that operational period.

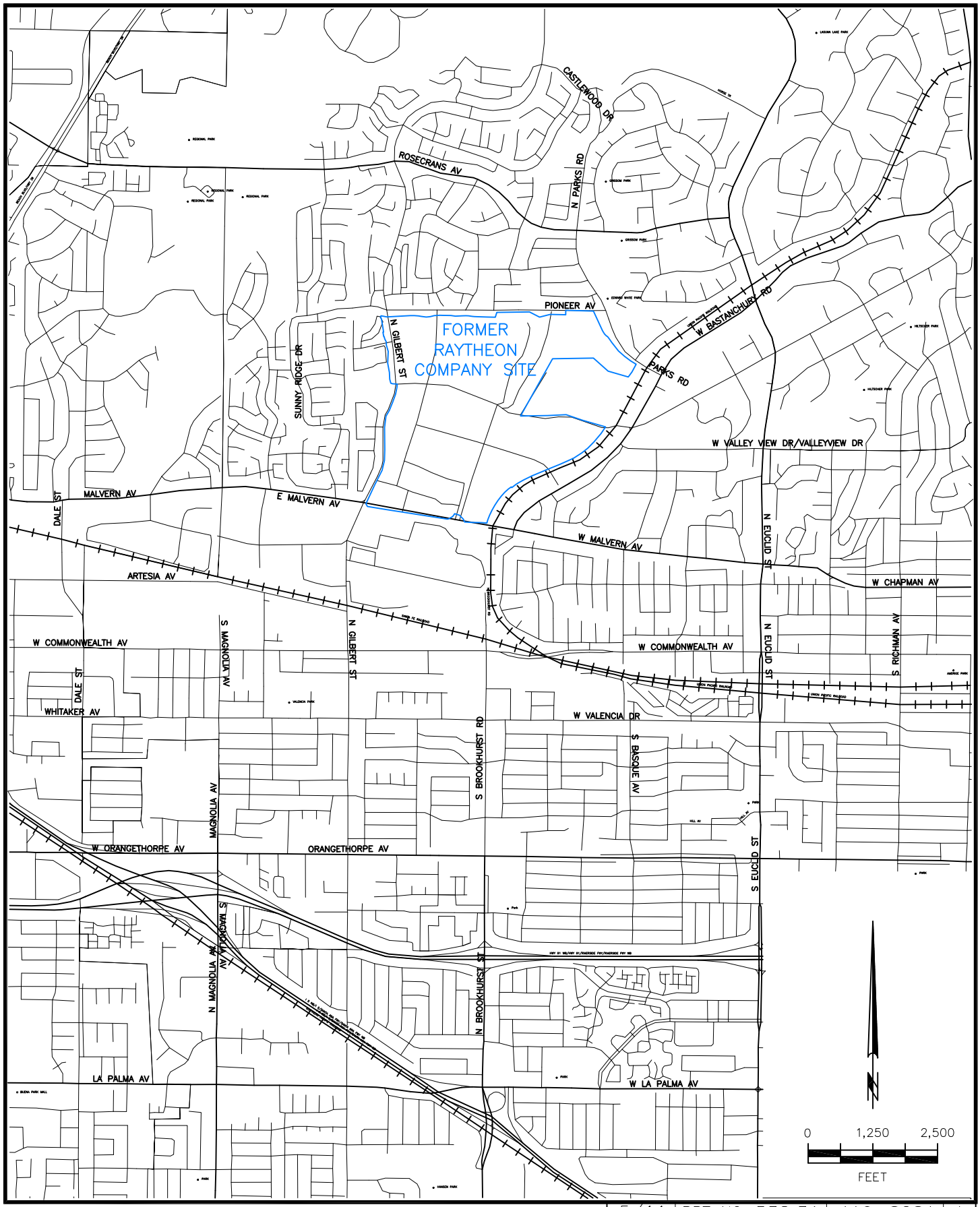
(d) Operational period beginning 7/1/2008 (first month of system operation).

gpm = gallons per minute

Refer to previous quarterly reports for detail of 2008 thru 2010 operational summary

Treatment of groundwater from EW-02 initiated in 2010

CEFF = Carbon effluent



May 11, 2011 - 10:09am ADE - T:\2011\500-599\532 Raytheon\Hydrogeology\H+A BaseMaps\410-8281.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

5/11	RPT NO. 532.31	410-8281	A

FIGURE 1. SITE LOCATION

EXPLANATION

- MW-09 — GROUNDWATER MONITOR WELL
- MW-25 — GROUNDWATER PIEZOMETER
- P-09 — PERCHED ZONE PIEZOMETER
- EW-01 — GROUNDWATER EXTRACTION WELL
- MW-10 — FORMER GROUNDWATER MONITOR WELL (ABANDONED)
- P-04 — FORMER PERCHED ZONE PIEZOMETER (ABANDONED)
- DPE-05 — FORMER PERCHED ZONE DUAL-PHASE EXTRACTION WELL (ABANDONED)
- EB-01 — FORMER GROUNDWATER ASSESSMENT SOIL BORING (ABANDONED)
- PGETS — PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM FACILITY COMPOUND
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
- SITE BOUNDARY

SHERIDAN RD, NEWCASTLE LN, WILLIAMSBURG RD, BAYBERRY WAY, BAYCREST PL, ROXBURY DR, BRIGHTON PL, ASHTON PL, FOXBOROUGH PL, NORTHAMPTON WAY, JONESBORO LN, MEADOWBROOK WAY, ROCKLEDGE DRIVE, VESTAVIA AVE, N SEVILLE PL, BURNING TREE RD, FRANKLIN HILLS DR, MONTEREY PL, CYPRESS POINT DR, N CANDLEWOOD DR, N POST RD, SUNNY RIDGE DR, CARMEL CIR, RAMADA PLAZA, WINDSONG WAY, CREEKSIDE DR, SANDBAR DR, W MILLSTREAM DR, BRAMBLE WAY, WHITEWATER DR, NORTH GILBERT STREET, STARBUCK STREET, STERN-GOODMAN STREET, HUGHES DRIVE, MALVERN AVENUE, BREA CREEK, MOORE AVENUE, BURNING TREE ROAD, AIRPARK DRIVE, RAYMER AVENUE, GILBERT STREET, ARTESIA A. T. & S. F.

MW-34, MW-36, MW-32, MW-33, MW-35, MW-31, MW-29, MW-08, MW-15, EW-02, MW-30, MW-28, MW-13, MW-23, MW-26/EB-04, MW-18, MW-27, MW-17, MW-19, MW-22, MW-12, MW-14, EB-02, MW-10, MW-11, MW-07, MW-05, MW-20, MW-06, P-09, P-01, P-04, P-02, P-03, DPE-01, DPE-02, DPE-03, DPE-04, DPE-05, DPE-06, P-07, MW-09, MW-16, MW-24, MW-21, MW-25/EB-03, EW-01, EB-01

SEE DETAIL BELOW

COOLING TOWER, 609, 601

ROSS, OLD NAVY, LINENS 'N THINGS, CAMOUFLAGE FOOTWEAR, EVER INPORTS, RETAIL, TARGET, ALBERTSONS, BARNES & NOBLE BOOKS, RESTAURANT RES RETAIL, GAS STATION, SCE SUBSTATION

CITY OF FULLERTON WELL NO. 9

0 200 400 FEET

DETAIL AREA

0 50 100 FEET

Jan 31, 2012 - 4:05pm ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\H+A BaseMaps\410-8569.dwg

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01/12 | RPT NO. 532.03 | 410-8569 | A

FIGURE 2.
WELL AND PIEZOMETER LOCATIONS

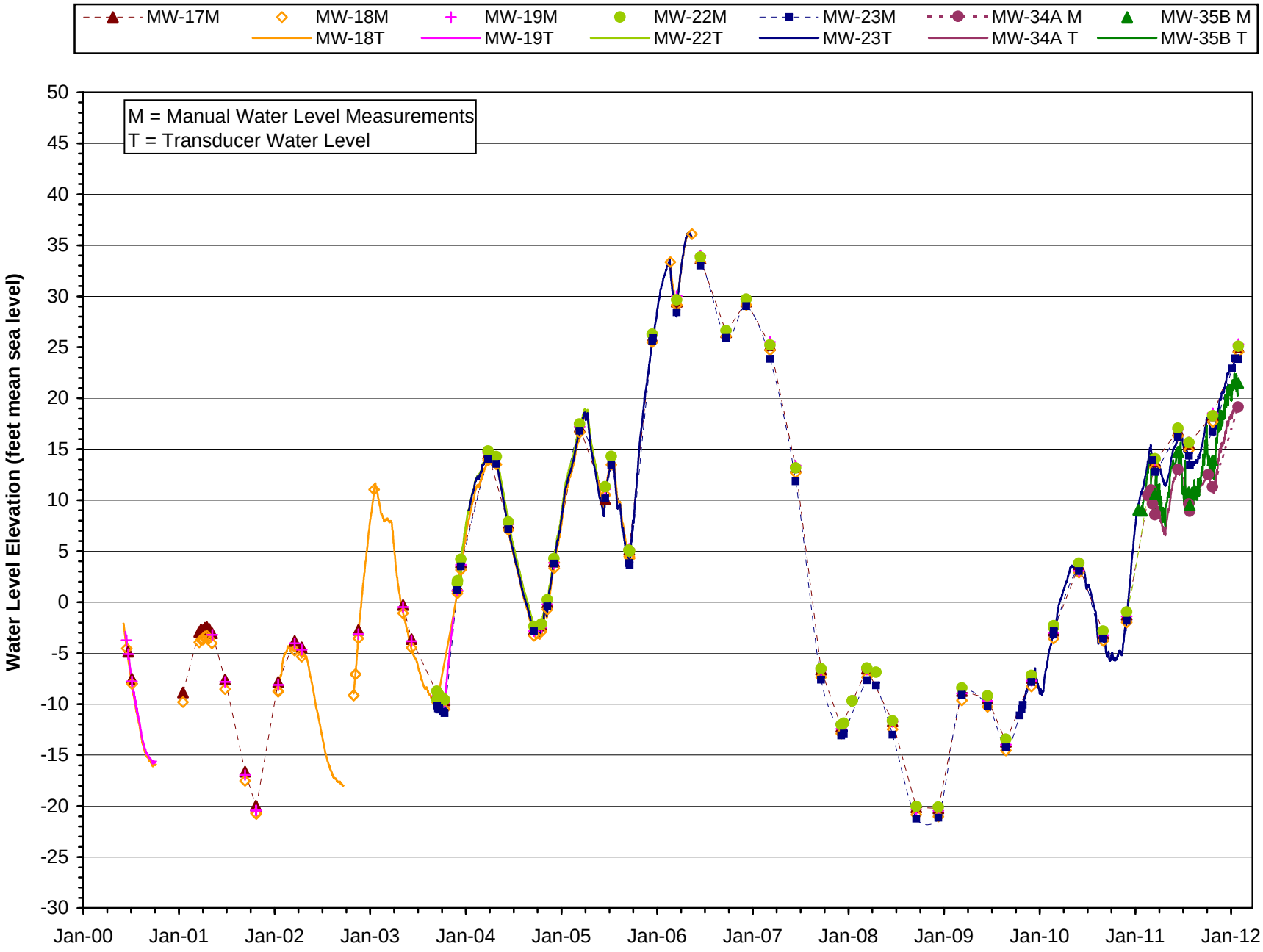
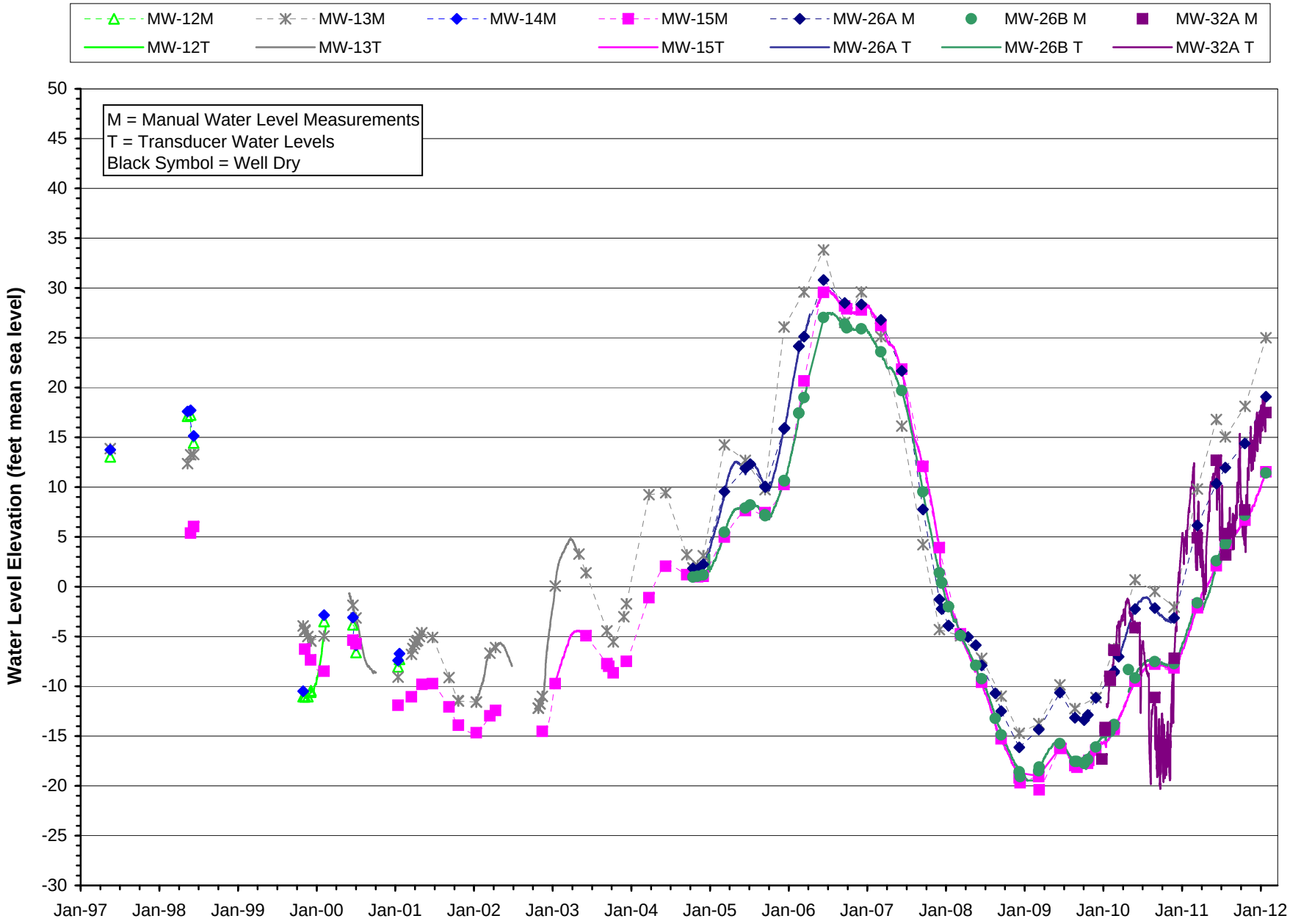


FIGURE 3. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT A MONITOR WELLS



532 H01_Rpt 2012-2_FIG04.xls

FIGURE 4. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT AB MONITOR WELLS

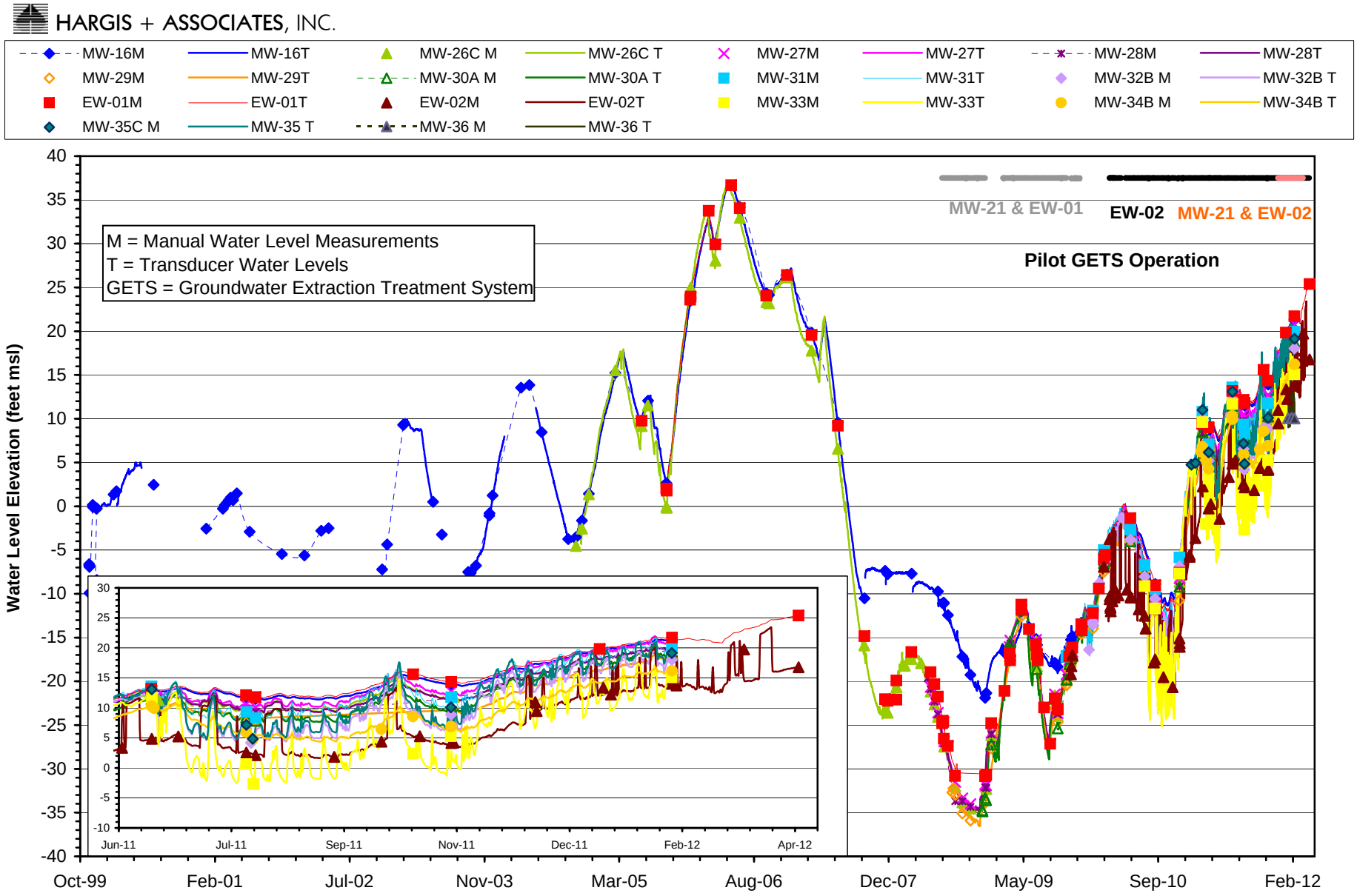


FIGURE 5. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT B MONITOR AND EXTRACTION WELLS

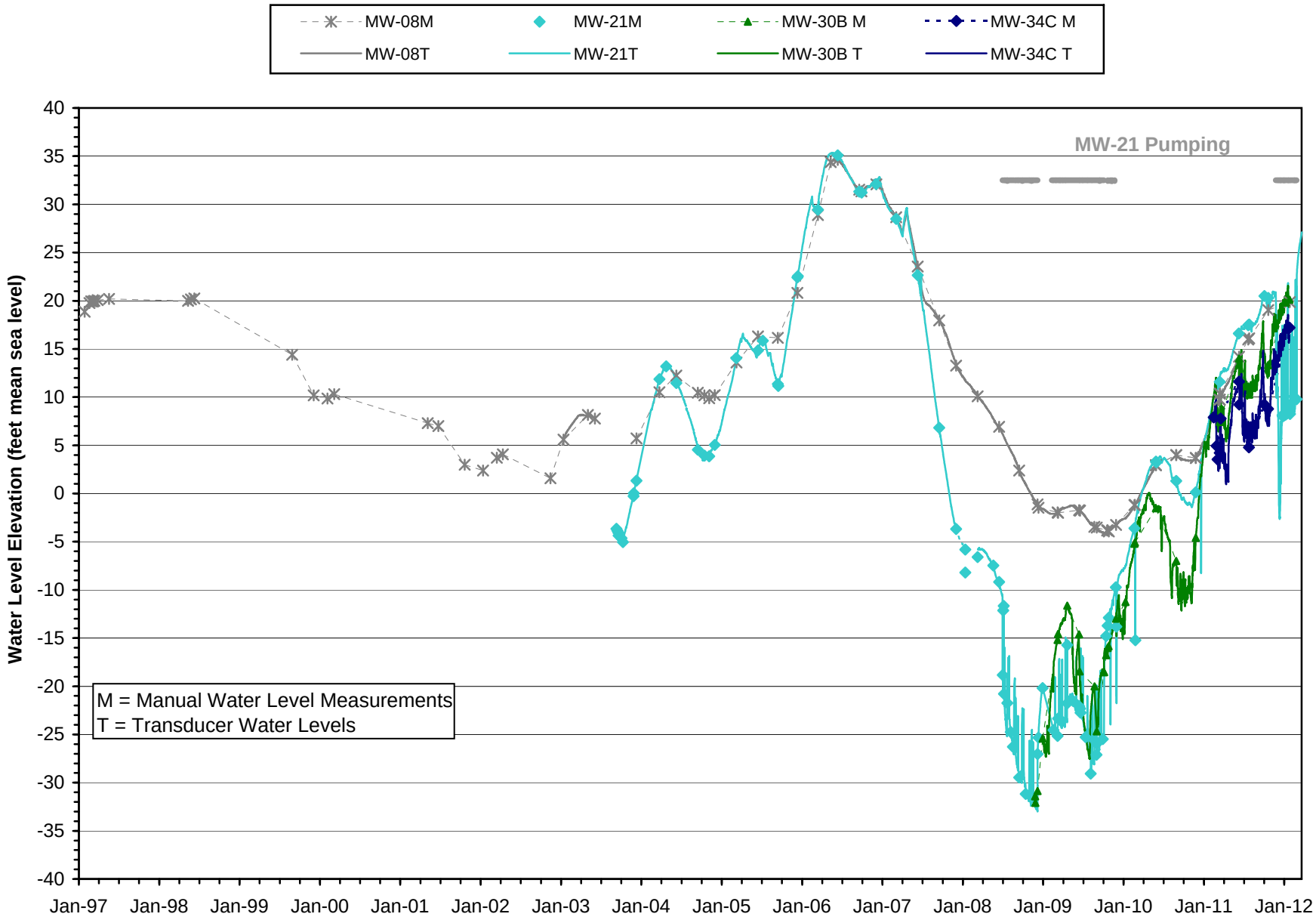
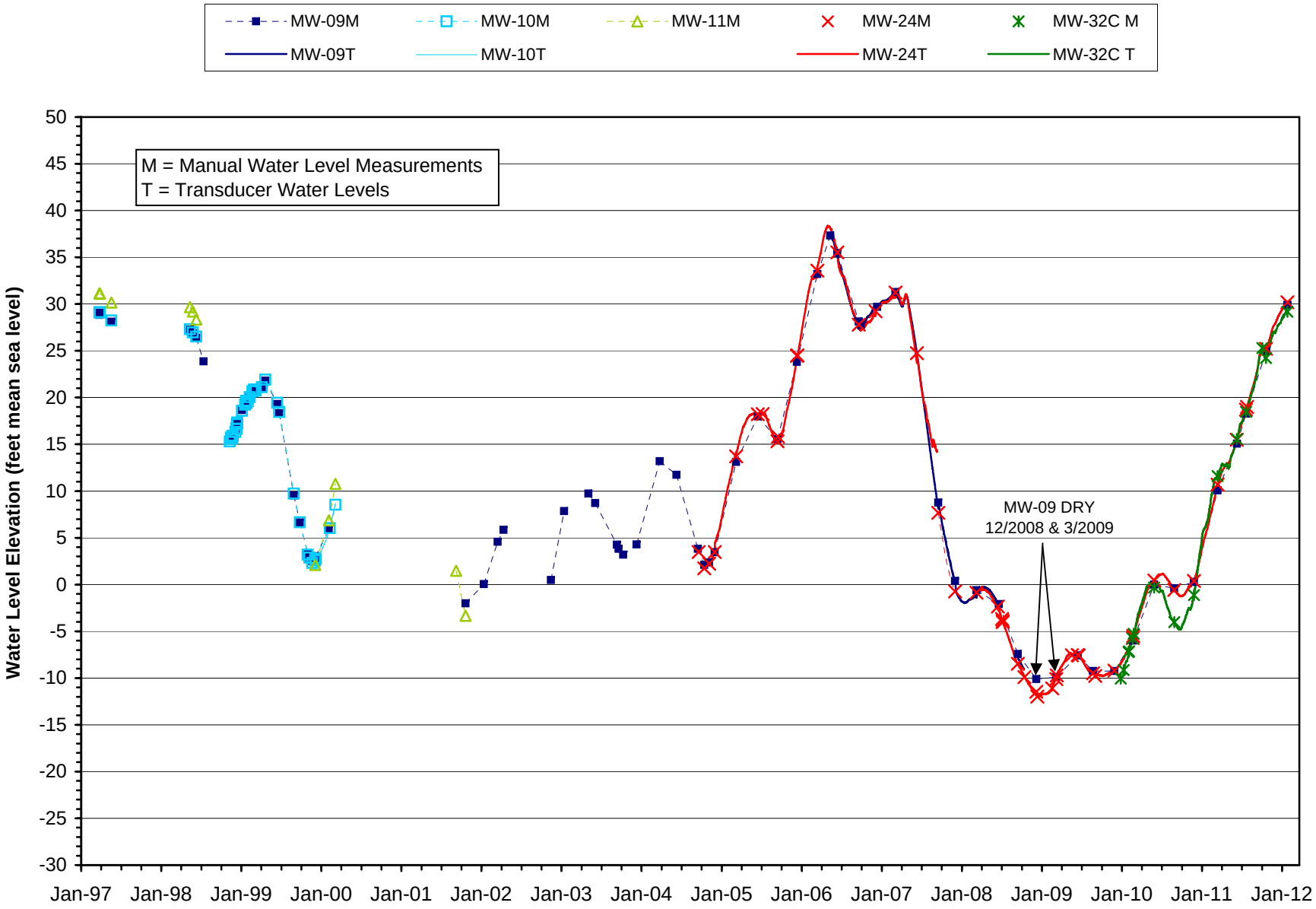
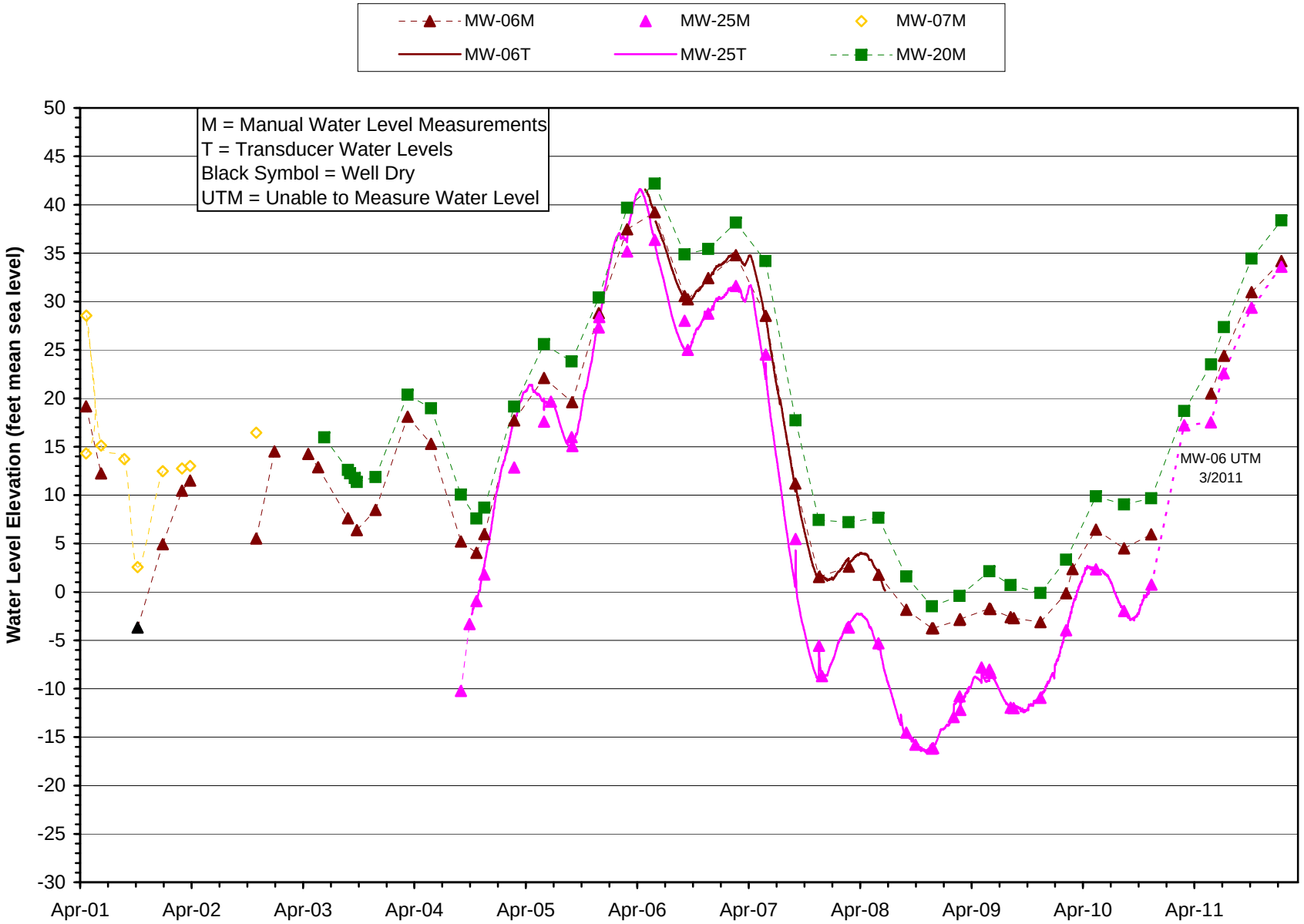


FIGURE 6. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT BC MONITOR AND EXTRACTION WELLS



532 H01_Rpt 2012-2_FIG07.xls

FIGURE 7. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT C MONITOR WELLS



532 H01_Rpt 2012-2_FIG08.xls

FIGURE 8. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, UNIT D MONITOR WELLS

NORTH
A

SOUTH
A'

MW-06 (PROJECTED)
MW-09 (PROJECTED)
RETAINING WALL P-7 (PROJECTED)
EB-01
MW-16
EB-03/MW-25
MW-24
MW-21
EW-01
MW-28 (PROJECTED)
MW-17
EB-04/MW-26 (PROJECTED)
MW-22 (PROJECTED)
MW-23 (PROJECTED)
MW-27 (PROJECTED)
EB-02 (PROJECTED)

FORMER LAND SURFACE
CURRENT LAND SURFACE

PERCHED ZONE
UNSATURATED ZONE
UNIT A
UNIT B (TARGET ZONE)
UNIT C
UNIT D

MW-06 <0.50/NS
MW-09 <0.50/<0.20
P-07 2,800/2,200
MW-16 95/44
EW-01 59/11
MW-21 520/33
MW-24 <0.50/<0.20
MW-25 NS
MW-28 0.84/<0.20
MW-17 NS/NS
TEMPORARY WELL SCREEN
MW-23 <0.50/NA
MW-22 <0.50/NA
MW-26A NS/NS
MW-26B NS/NS
MW-26C <0.50/<0.20
MW-27 <0.50/<0.20

ELEVATION, FEET MEAN SEA LEVEL
200 175 150 125 100 75 50 25 0 −25 −50 −75 −100 −125 −150 −175 −200 −225 −250 −275 −300 −325 −350 −375 −400 −425 −450 −475 −500 −525 −550 −575 −600 −625 −650 −675

0 120 240
FEET

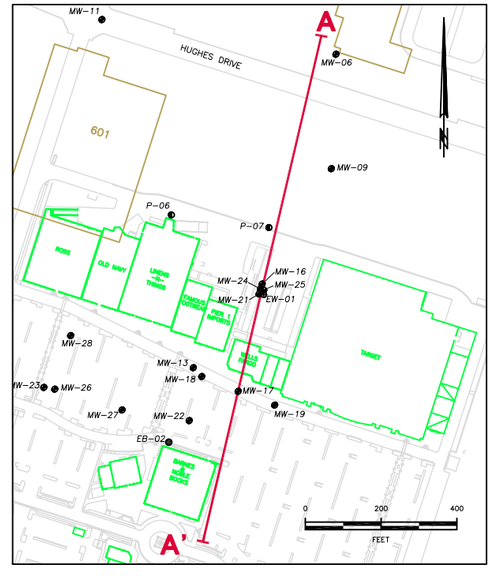
EXPLANATION

- RELATIVELY COARSE ZONE, PREDOMINANTLY SANDS WITH LITTLE TO NO SILT OR CLAY
- MIXED ZONE, MIXTURES OF SANDS, CLAYS, AND SILTS
- RELATIVELY FINE ZONE, PREDOMINANTLY SILTS OR CLAYS WITH LITTLE TO NO SAND
- PREDOMINANTLY COARSE ZONE
- MIXED ZONE
- RELATIVELY FINE ZONE
- SCREENED INTERVAL OF MONITOR WELL
- 59 — 1,1−DICHLOROETHYLENE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2012
- 11 — 1,4−DIOXANE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2012
- NA — NOT ANALYZED FOR (SPECIFIC ANALYTE) IN FEBRUARY 2012
- NS — NOT SAMPLED IN MARCH 2011
- < — LESS THAN; VALUE IS THE LIMIT OF DETECTION
- ? — QUERIED WHERE INFERRED
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON−SITE HISTORICAL HIGH, JUNE 2006
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON−SITE HISTORICAL LOW, DECEMBER 2008

LGRD
0 (OHM−M) 100 500

RESISTIVITY LOG (ohm−m) (LATERAL OR SHORT−NORMAL) OF WELL BOREHOLE. RIGHT EDGE OF THE LITHOLOGIC LOG COLUMN IS THE ZERO ohm−m LINE.

CROSS SECTION LOCATION



Mar 29, 2012 − 12:11pm ADE − T:\2012\500−599\532 Raytheon\Hydrogeology\X−Sections\310−1133.dwg

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Hydrogeology/Engineering

03/12	RPT NO. 532.31	310-1133	A

FIGURE 9.
SITE CONCEPTUAL GROUNDWATER MODEL HYDROGEOLOGIC CROSS−SECTION A−A'

NORTH B

SOUTH B'

MW-11 (DESTROYED) (PROJECTED)

FORMER LAND SURFACE

MW-08 (PROJECTED)

CURRENT LAND SURFACE

MW-29 (PROJECTED)

MW-15 (PROJECTED)

MW-28 (PROJECTED)

EW-02 (PROJECTED)

MW-23 (PROJECTED)

MW-30 A/B

MW-31

UNSATURATED ZONE

29 / 0.94

<0.50 / NS

900E / 130E

0.84 / <0.20

54 / 6.4

TEMPORARY WELL SCREEN

<0.50 / NA

MW-30A

0.66 / <0.20

MW-30B

14 / 0.30

26 / <0.20

UNIT A

UNIT A/B

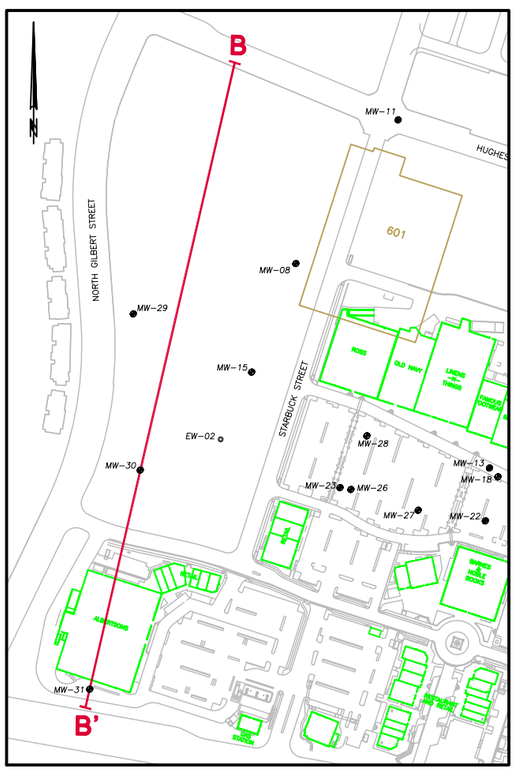
UNIT B (TARGET ZONE)

UNIT B/C

UNIT C

ELEVATION, FEET MEAN SEA LEVEL

CROSS SECTION LOCATION



EXPLANATION

- RELATIVELY COARSE ZONE, PREDOMINANTLY SANDS WITH LITTLE TO NO SILT OR CLAY
- MIXED ZONE, MIXTURES OF SANDS, CLAYS, AND SILTS
- RELATIVELY FINE ZONE, PREDOMINANTLY SILTS OR CLAYS WITH LITTLE TO NO SAND
- PREDOMINANTLY COARSE ZONE
- MIXED ZONE
- RELATIVELY FINE ZONE
- SCREENED INTERVAL OF MONITOR WELL
- 29 — 1,1-DICHLOROETHYLENE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2012
- 0.94 — 1,4-DIOXANE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2012
- E — RESULT QUALIFIED AS ESTIMATED IN ACCORDANCE WITH QUALITY CONTROL CRITERIA
- ? — QUERIED WHERE INFERRED
- NA — NOT ANALYZED FOR (SPECIFIC ANALYTE) IN FEBRUARY 2012
- NS — NOT SAMPLED IN FEBRUARY 2012
- < — LESS THAN; VALUE IS THE LIMIT OF DETECTION
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON-SITE HISTORICAL HIGH, JUNE 2006
- APPROXIMATE REGIONAL GROUNDWATER TABLE DURING ON-SITE HISTORICAL LOW, DECEMBER 2008

NOTE:

WATER QUALITY RESULTS AND DIRECTION OF GROUNDWATER FLOW WITHIN TARGET ZONE INDICATE THAT COMPOUNDS DETECTED APPEAR RELATED TO FORMER BUILDING 609

LGRD
0 (OHM-M) 100 500

RESISTIVITY LOG (ohm-m) (LATERAL OR SHORT-NORMAL) OF WELL BOREHOLE. RIGHT EDGE OF THE LITHOLOGIC LOG COLUMN IS THE ZERO ohm-m LINE.

0 120 240
FEET

Apr 19, 2012 - 1:42pm ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\X-Sections\310-1134.dwg

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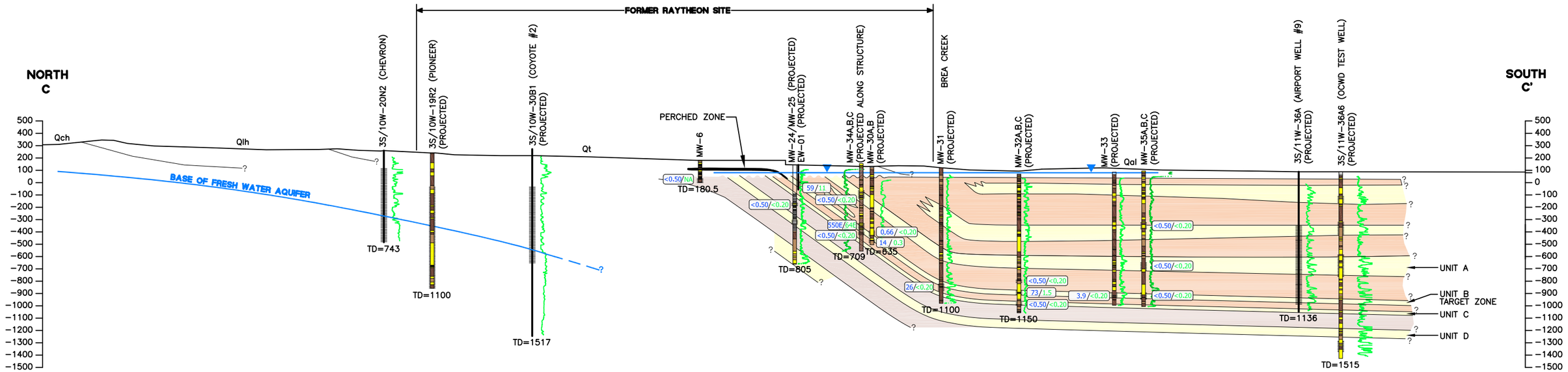
04/12	RPT NO. 532.31	310-1134	A

FIGURE 10.
SITE CONCEPTUAL GROUNDWATER MODEL HYDROGEOLOGIC CROSS-SECTION B-B'

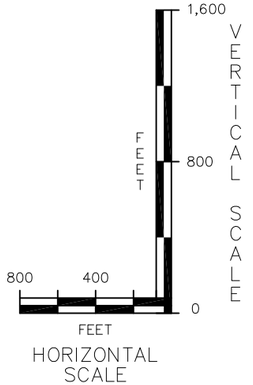


EXPLANATION

- RELATIVELY COARSE ZONE, PREDOMINANTLY SANDS WITH LITTLE TO NO SILT OR CLAY
- MIXED ZONE, MIXTURES OF SANDS, CLAYS, AND SILTS
- RELATIVELY FINE ZONE, PREDOMINANTLY SILTS OR CLAYS WITH LITTLE TO NO SAND
- PREDOMINANTLY COARSE ZONE
- MIXED ZONE
- RELATIVELY FINE ZONE
- SCREENED INTERVAL OF MONITOR WELL

LGRD
0 (OHM-M) 100 500

RESISTIVITY LOG (ohm-m) (LATERAL OR SHORT-NORMAL) OF WELL BOREHOLE. RIGHT EDGE OF THE LITHOLOGIC LOG COLUMN IS THE ZERO ohm-m LINE.



Qal	ALLUVIUM, HOLOCENE: UNCONSOLIDATED AND POORLY CONSOLIDATED GRAVEL, SAND AND SILT.
Qt/ Qoa	TERRACE DEPOSITS/OLDER ALLUVIUM, UPPER PLEISTOCENE TO HOLOCENE: POORLY CONSOLIDATED GRAVEL, SAND AND SILT, COMMONLY REDDISH-BROWN; LOCALLY RED-BROWN SILT.
Qlh	LA HABRA FORMATION, UPPER PLEISTOCENE: OLIVE-GRAY TO RED-BROWN SILTSTONE; PALE YELLOW-BROWN TO RED-BROWN THICK-BEDDED FRIABLE SANDSTONE; PALE-YELLOW-GRAY POORLY BEDDED PEBBLY SANDSTONE; AND PALE-YELLOW-BROWN UNSORTED PEBBLE-COBBLE CONGLOMERATE; BASAL PART FILLS IRREGULAR CHANNELS CUT INTO UNDERLYING STRATA.
Qch	COYOTE HILLS FORMATION, UPPER PLEISTOCENE: MODERATE YELLOW-BROWN TO MODERATE BROWN THICK-BEDDED TO MASSIVE FRIABLE PEBBLY SANDSTONE; OLIVE-GRAY TO GRAY-BROWN MASSIVE SILTSTONE; AND YELLOW-BROWN MASSIVE SANDSTONE AND PEBBLE CONGLOMERATE.
200	1,1-DICHLOROETHYLENE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2012 UNLESS OTHERWISE INDICATED
E	RESULT QUALIFIED AS ESTIMATED IN ACCORDANCE WITH QUALITY CONTROL CRITERIA
NS	NOT SAMPLED
64	1,4-DIOXANE CONCENTRATION, MICROGRAMS PER LITER, FEBRUARY 2012 UNLESS OTHERWISE INDICATED
	NOTE: SURFACE DISTRIBUTION OF STRATIGRAPHIC UNITS AND DESCRIPTIONS OF STRATIGRAPHIC UNITS EXCERPTED FROM YERKES, 1972.
▼	APPROXIMATE UNIT B GROUNDWATER LEVEL, FEBRUARY 2012
?	QUERIED WHERE INFERRED
NOTE:	NOT ALL ON-SITE WELLS ARE DEPICTED ON CROSS SECTION

CROSS SECTION LOCATION

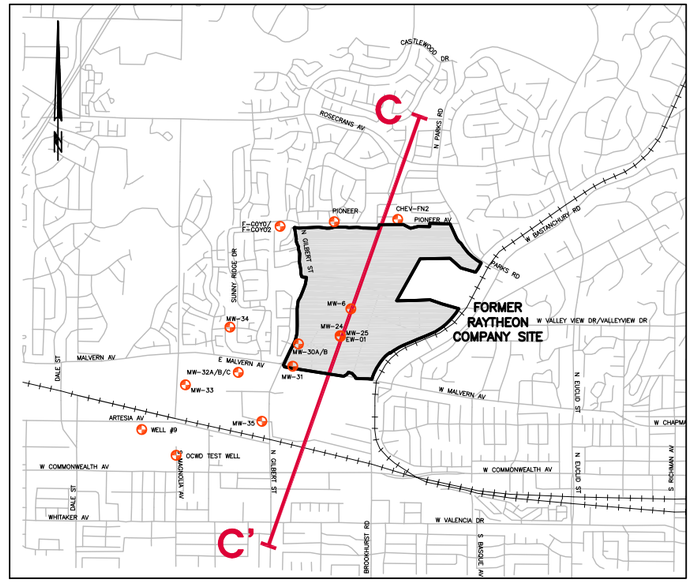


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FIGURE 11.
REGIONAL CONCEPTUAL GROUNDWATER MODEL HYDROGEOLOGIC CROSS-SECTION C-C'

EXPLANATION

MW-16 GROUNDWATER MONITOR WELL

P-09 PERCHED ZONE PIEZOMETER

MW-25 GROUNDWATER PIEZOMETER

EW-01 GROUNDWATER EXTRACTION WELL

* PUMPING WATER LEVEL ELEVATION

PGETS PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM FACILITY COMPOUND

FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000

CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS

DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT

WELL IDENTIFIER — MW-36 / B | Feb 2012 | 10.03

HYDROGEOLOGIC ZONE

SAMPLE DATE

WATER LEVEL ELEVATION, FEET MEAN SEA LEVEL

SITE BOUNDARY

HYDROGEOLOGIC ZONES:

PERCHED	AB	C
OTHER	B	D
	A	BC

MW-34A (A)		
	Jun 2011	12.99
	Aug 2011	9.62
	Oct 2011	11.30
	Feb 2012	19.12

MW-34B (B)		
	Jun 2011	10.30
	Aug 2011	5.91
	Oct 2011	6.92
	Feb 2012	16.19

MW-34C (BC)		
	Jun 2011	11.61
	Aug 2011	6.93
	Oct 2011	8.77
	Feb 2012	17.21

MW-09 (C)		
	Jun 2011	15.06
	Aug 2011	18.26
	Nov 2011	24.97
	Feb 2012	29.91

MW-08 (BC)		
	Jun 2011	14.19
	Aug 2011	15.97
	Oct 2011	19.03
	Feb 2012	19.87

MW-29 (B)		
	Jun 2011	10.47
	Aug 2011	8.11
	Oct 2011	9.69
	Feb 2012	18.22

MW-15 (AB)		
	Jun 2011	2.09
	Aug 2011	3.92
	Oct 2011	6.67
	Feb 2012	11.54

EW-02 (B)		
	Jun 2011	4.85*
	Aug 2011	2.56*
	Oct 2011	4.14*
	Feb 2012	14.02*

MW-30A (B)		
	Jun 2011	11.45
	Aug 2011	8.37
	Oct 2011	10.25
	Feb 2012	18.74

MW-30B (BC)		
	Jun 2011	13.99
	Aug 2011	11.10
	Oct 2011	13.32
	Feb 2012	20.11

MW-28 (B)		
	Jun 2011	11.67
	Aug 2011	9.75
	Oct 2011	11.70
	Feb 2012	19.79

MW-23 (A)		
	Jun 2011	16.18
	Aug 2011	14.36
	Oct 2011	16.73
	Feb 2012	23.84

MW-32A (AB)		
	Jun 2011	12.69
	Aug 2011	5.32
	Oct 2011	7.71
	Feb 2012	17.48

MW-32B (B)		
	Jun 2011	12.55
	Aug 2011	6.54
	Oct 2011	8.88
	Feb 2012	18.05

MW-32C (C)		
	Jun 2011	15.56
	Aug 2011	18.48
	Oct 2011	24.23
	Feb 2012	29.17

MW-31 (B)		
	Jun 2011	13.58
	Aug 2011	9.32
	Oct 2011	11.76
	Feb 2012	19.94

MW-33 (B)		
	Jun 2011	11.69
	Aug 2011	0.63
	Oct 2011	5.27
	Feb 2012	15.06

MW-26A (AB)		
	Jun 2011	10.36
	Aug 2011	11.95
	Oct 2011	14.39
	Feb 2012	19.08

MW-26B (AB)		
	Jun 2011	2.60
	Aug 2011	4.22
	Oct 2011	7.16
	Feb 2012	11.42

MW-26C (B)		
	Jun 2011	12.19
	Aug 2011	9.83
	Oct 2011	11.88
	Feb 2012	19.99

MW-27 (B)		
	Jun 2011	12.80
	Aug 2011	10.52
	Oct 2011	12.73
	Feb 2012	20.81

MW-13 (AB)		
	Jun 2011	16.80
	Aug 2011	15.04
	Oct 2011	18.12
	Feb 2012	24.99

MW-35A (OTHER)		
	Jun 2011	21.83
	Aug 2011	18.28
	Oct 2011	22.02
	Feb 2012	29.11

MW-35B (A)		
	Jun 2011	14.74
	Aug 2011	10.78
	Oct 2011	13.89
	Feb 2012	21.50

MW-35C (B)		
	Jun 2011	13.08
	Aug 2011	7.17
	Oct 2011	10.11
	Feb 2012	19.13

MW-16 (B)		
	Jun 2011	12.74
	Aug 2011	11.81
	Oct 2011	13.90
	Feb 2012	21.29

MW-24 (C)		
	Jun 2011	15.47
	Aug 2011	18.71
	Oct 2011	25.22
	Feb 2012	30.18

MW-21 (BC)		
	Jun 2011	16.61
	Aug 2011	17.46
	Oct 2011	20.29
	Feb 2012	8.88*

EW-01 (B)		
	Jun 2011	13.17
	Aug 2011	12.13
	Oct 2011	14.33
	Feb 2012	21.71

MW-20 (D)		
	Jun 2011	23.51
	Aug 2011	27.35
	Oct 2011	34.44
	Feb 2012	38.37

MW-06 (D)		
	Jun 2011	20.50
	Aug 2011	24.39
	Oct 2011	30.97
	Feb 2012	34.19

P-09 PERCHED		
	Jun 2011	63.38
	Aug 2011	63.38
	Oct 2011	63.36
	Feb 2012	63.36

MW-19 (A)		
	Jun 2011	16.90
	Aug 2011	15.66
	Oct 2011	18.53
	Feb 2012	25.31

MW-22 (A)		
	Jun 2011	17.05
	Aug 2011	15.64
	Oct 2011	18.27
	Feb 2012	25.09

MW-18 (A)		
	Jun 2011	16.29
	Aug 2011	14.91
	Oct 2011	17.67
	Feb 2012	24.52

MW-17 (A)		
	Jun 2011	16.82
	Aug 2011	15.55
	Oct 2011	18.32
	Feb 2012	25.04

DETAIL AREA

P-07 PERCHED		
	Jun 2011	30.95
	Aug 2011	31.00
	Oct 2011	31.03
	Feb 2012	31.30

MW-25 (D)		
	Jun 2011	17.52
	Aug 2011	22.59
	Oct 2011	29.36
	Feb 2012	33.59

0 200 400 FEET

0 50 100 FEET

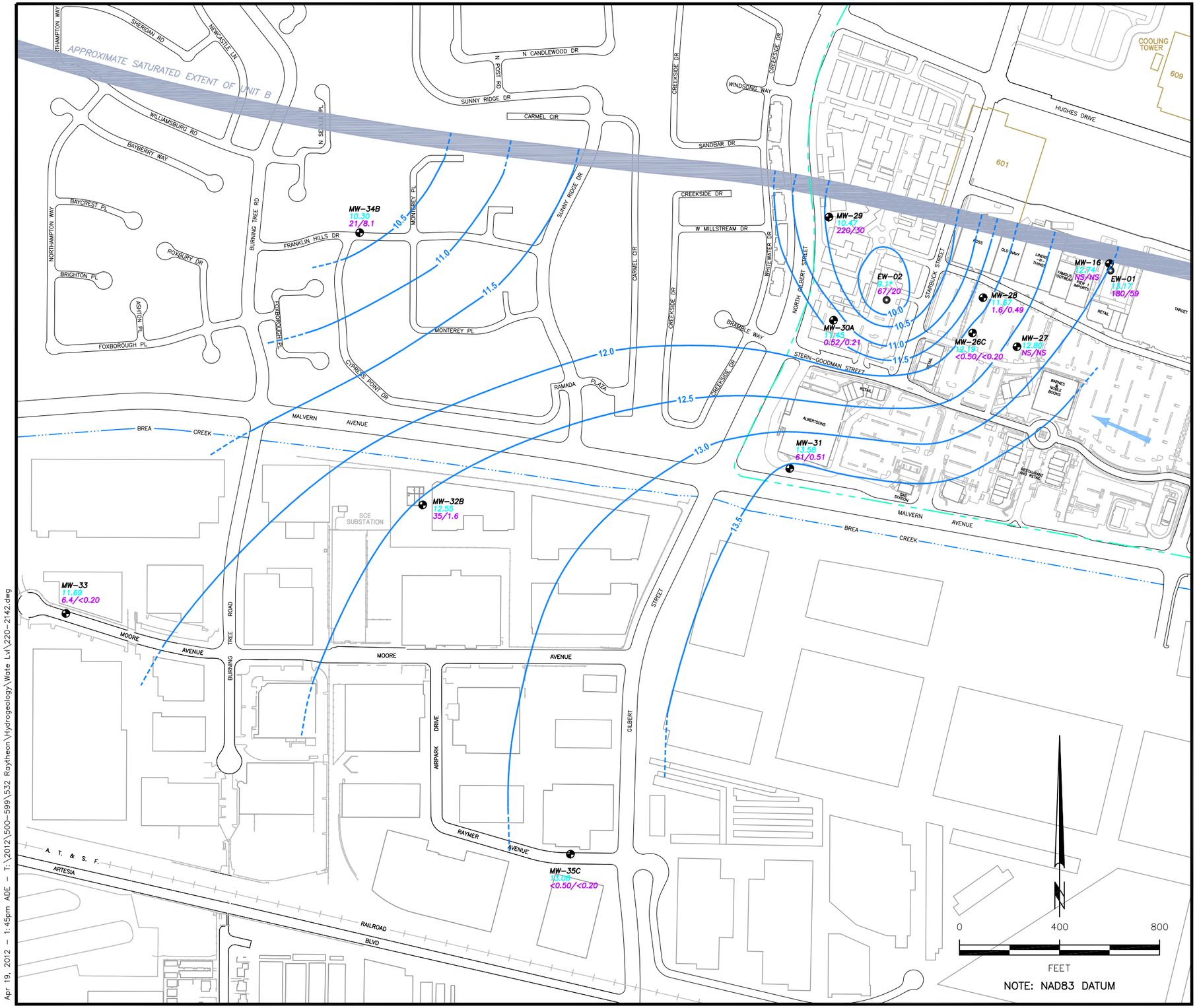
CITY OF FULLERTON WELL NO. 9

Mar 29, 2012 - 12:02pm ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\Wate Lvl\220-2145.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

03/12 | RPT NO. 532.31 | 220-2145 | A

FIGURE 12.
WATER LEVEL ELEVATIONS
JUNE 2011 THROUGH FEBRUARY 2012



EXPLANATION

- MW-29 — GROUNDWATER MONITOR WELL
- EW-01 — GROUNDWATER EXTRACTION WELL
- 13.17 — WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
- 180/59 — CONCENTRATION OF 1,1-DCE/1,4-DIOXANE IN GROUNDWATER (MICROGRAMS PER LITER)
- * — EXTRACTION WELL EW-02 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION
- < — LESS THAN; VALUE IS THE LIMIT OF DETECTION
- NS — NOT SAMPLED
- 12.5 — EQUAL WATER LEVEL ELEVATION CONTOUR, DASHED WHERE APPROXIMATE (FEET MEAN SEA LEVEL)
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW, JUNE 2011

RAYTHEON COMPANY
FULLERTON, CALIFORNIA

WATER LEVEL AND WATER QUALITY
UNIT B
JUNE 2011

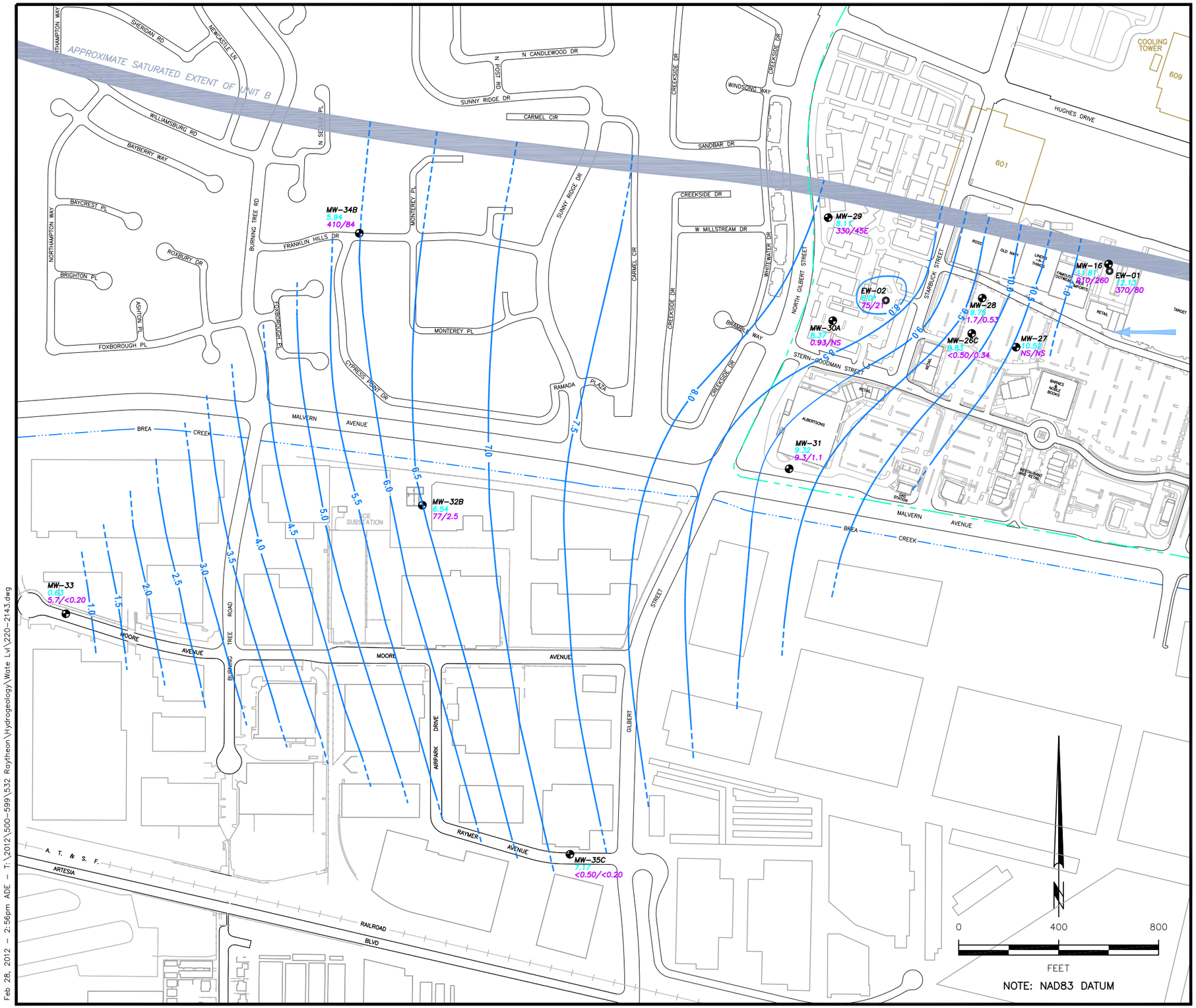
HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

04/12

FIGURE 13A

PREP BY	REV BY	RPT NO.		
AMB	SPN	532.30	220-2142	A

Apr 19, 2012 - 1:45pm ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\Wate Lvl\220-2142.dwg



EXPLANATION

MW-16	GROUNDWATER MONITOR WELL
EW-01	GROUNDWATER EXTRACTION WELL
11.81	WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
910/260	CONCENTRATION OF 1,1-DCE/1,4-DIOXANE IN GROUNDWATER (MICROGRAMS PER LITER)
*	EXTRACTION WELL EW-02 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION
<	LESS THAN; VALUE IS THE LIMIT OF DETECTION
NS	NOT SAMPLED
E	DATA QUALIFIED AS ESTIMATED IN ACCORDANCE WITH QUALITY CONTROL CRITERIA
5.0	EQUAL WATER LEVEL ELEVATION CONTOUR, DASHED WHERE APPROXIMATE (FEET MEAN SEA LEVEL)
609	FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
	CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
	DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
	APPROXIMATE DIRECTION OF GROUNDWATER FLOW, AUGUST 2011

RAYTHEON COMPANY
FULLERTON, CALIFORNIA

WATER LEVEL AND WATER QUALITY
UNIT B
AUGUST 2011

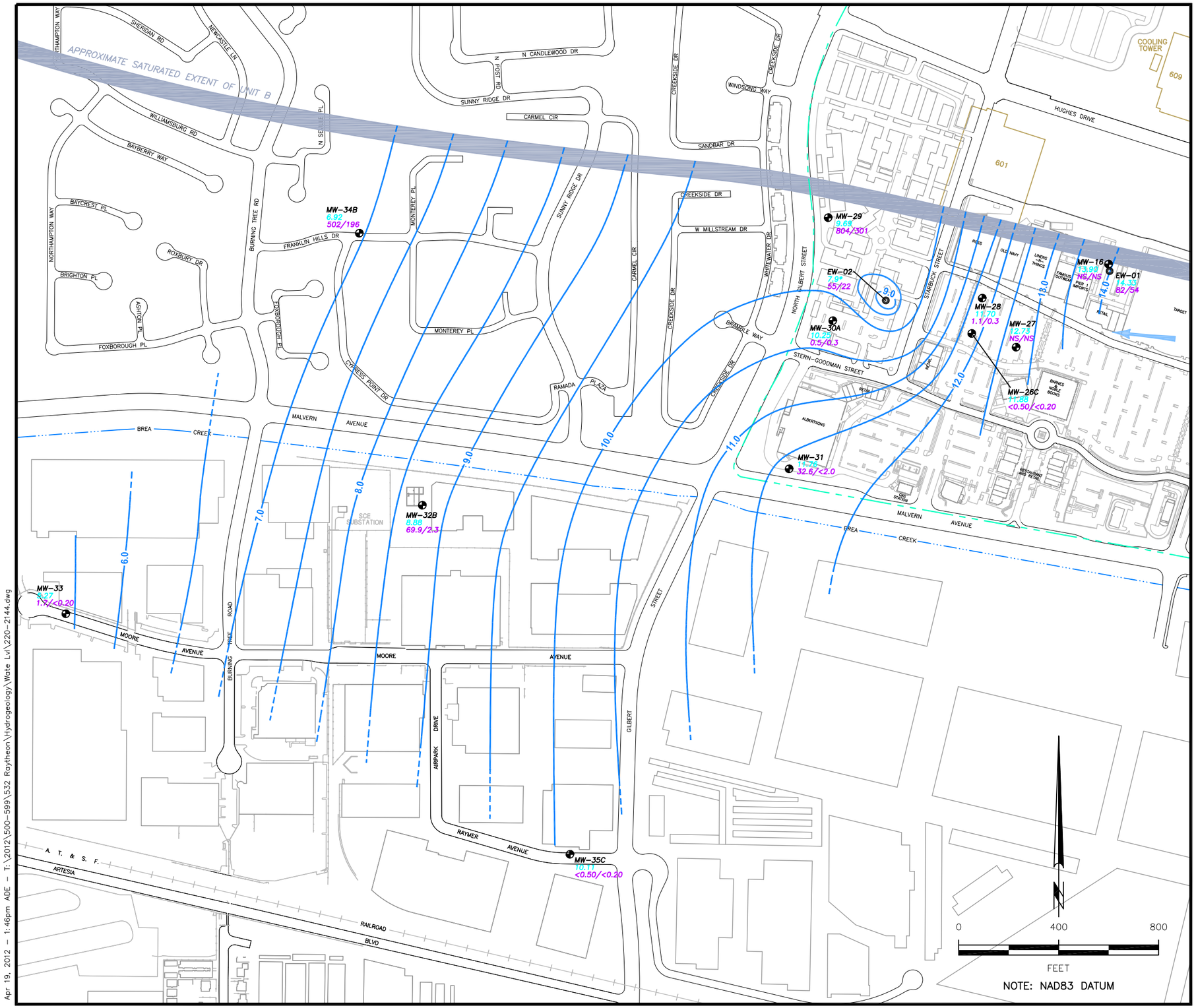
HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

02/12

FIGURE 13B

PREP BY AMB REV BY SPN RPT NO. 532.31 | 220-2143 | A

Feb 28, 2012 - 2:56pm ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\Wate Lvl\220-2143.dwg



EXPLANATION

MW-16	GROUNDWATER MONITOR WELL
EW-01	GROUNDWATER EXTRACTION WELL
14.33	WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
82/54	CONCENTRATION OF 1,1-DCE/1,4-DIOXANE IN GROUNDWATER (MICROGRAMS PER LITER)
*	EXTRACTION WELL EW-02 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION
<	LESS THAN; VALUE IS THE LIMIT OF DETECTION
NS	NOT SAMPLED
8.0	EQUAL WATER LEVEL ELEVATION CONTOUR, DASHED WHERE APPROXIMATE (FEET MEAN SEA LEVEL)
609	FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000
	CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
	DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT
	APPROXIMATE DIRECTION OF GROUNDWATER FLOW, NOVEMBER 2011 (COLLECTED ON OCTOBER 31, 2011)

RAYTHEON COMPANY
FULLERTON, CALIFORNIA

WATER LEVEL AND WATER QUALITY
UNIT B
NOVEMBER 2011

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

04/12

FIGURE 13C

PREP BY AMB REV BY SPN RPT NO. 532.31 | 220-2144 | A

Apr 19, 2012 - 1:46pm ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\Wate Lvl\220-2144.dwg

APPROXIMATE SATURATED EXTENT OF UNIT B

MW–36
10.03
2.9/<0.20

MW–34B
16.19
550E/64

MW–32B
18.05
73/1.5

MW–33
15.06
3.9/<0.20

MW–35C
19.13
<0.50/<0.20

F–AIRP/#9

MW–29
18.22
900E/130

EW–02
17.01
54/6.4

MW–30A
18.74
0.66/<0.20

MW–28
19.79
0.84/<0.20

MW–26C
19.99
<0.50/<0.20

MW–27
20.81
<0.50/<0.20

MW–16
21.29
95/44

EW–01
21.71
59/11

MW–31
19.94
26/<0.20

11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0 21.0

MALVERN AVENUE
BREA CREEK
MOORE AVENUE
RAYMER AVENUE
ARTESIA BLVD
A. T. & S. F. RAILROAD
BURNING TREE ROAD
AIRPARK DRIVE
NORTH GILBERT STREET
STERN–GOODMAN STREET
STARBUCK STREET
HUGHES DRIVE
CREEKSIDE DR
W MILLSTREAM DR
SUNNY RIDGE DR
CARMEL CIR
MONTEREY PL
FRANKLIN HILLS DR
FOXBOROUGH PL
BRIGHTON PL
BAYBERRY WAY
WILLIAMSBURG RD
VESTAVIA AVE
MEADOWBROOK WAY
ROCKLEDGE DRIVE
RAMADA PLAZA
SCE SUBSTATION
COOLING TOWER
609
601

0 200 400
FEET
NOTE: NAD83 DATUM

EXPLANATION

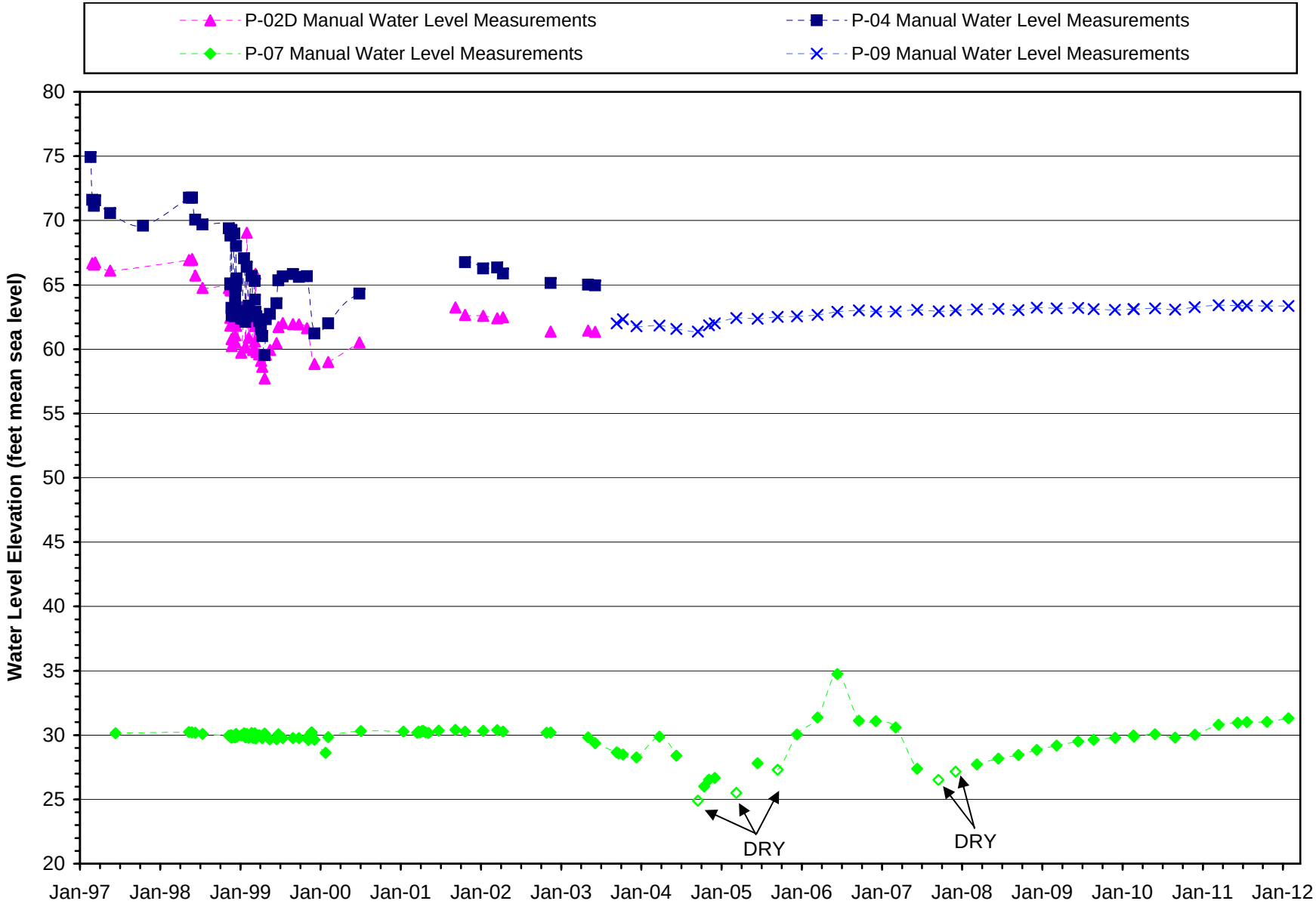
- MW–16 — GROUNDWATER MONITOR WELL
- EW–01 — GROUNDWATER EXTRACTION WELL
- 21.71 — WATER LEVEL ELEVATION (FEET MEAN SEA LEVEL)
- 59/11 — CONCENTRATION OF 1,1–DICHLOROETHYLENE/1,4–DIOXANE IN GROUNDWATER (MICROGRAMS PER LITER)
- E — RESULT QUALIFIED AS "ESTIMATED" IN ACCORDANCE WITH QUALITY CONTROL CRITERIA
- * — EXTRACTION WELL EW–02 PUMPING DURING WATER LEVEL GAUGING; ESTIMATED WATER LEVEL BASED ON THIEM EQUATION
- 20.0 — EQUAL WATER LEVEL ELEVATION CONTOUR, DASHED WHERE APPROXIMATE (FEET MEAN SEA LEVEL)
- 609 — FORMER RAYTHEON BUILDING, DEMOLISHED MID–2000
- CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS
- DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE–DEVELOPMENT
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW, FEBRUARY 2012 (COLLECTED ON FEBRUARY 6, 2012)

May 31, 2012 – 9:56am ADE – T:\2012\500–599\532 Raytheon\Hydrogeology\Wate Lvl\220–2137.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

05/12 | RPT NO. 532.31 | 220–2137 | A

FIGURE 13D
WATER LEVEL AND WATER QUALITY UNIT B
FEBRUARY 2012



532 Rpt 2012-02 FIG14.xls

FIGURE 14. PERCHED ZONE WATER LEVELS, CENTRAL PORTION OF SITE

HARGIS + ASSOCIATES, INC.

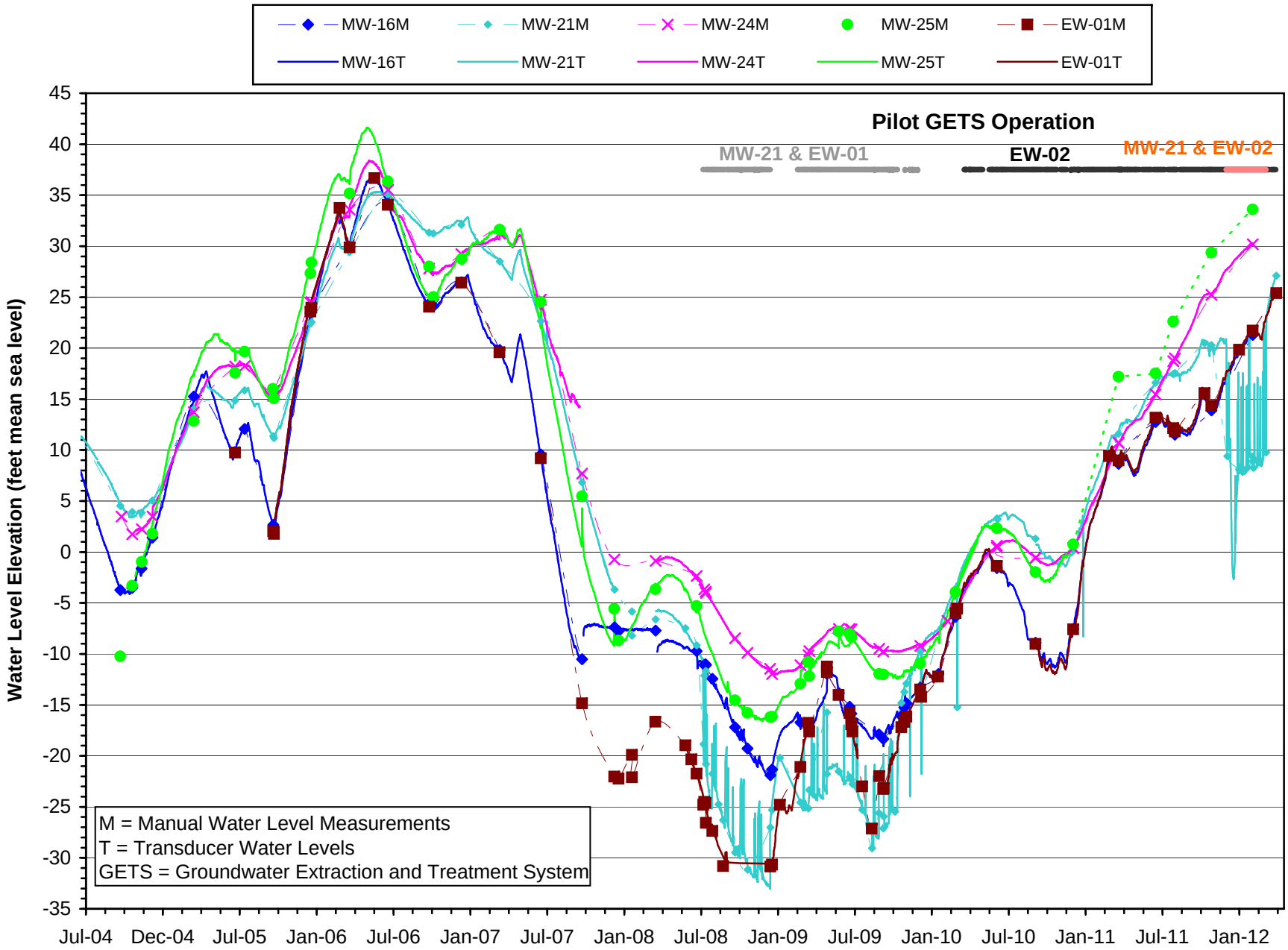


FIGURE 15. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, MONITOR AND EXTRACTION WELL CLUSTER EW-01/MW-16/21/24/25

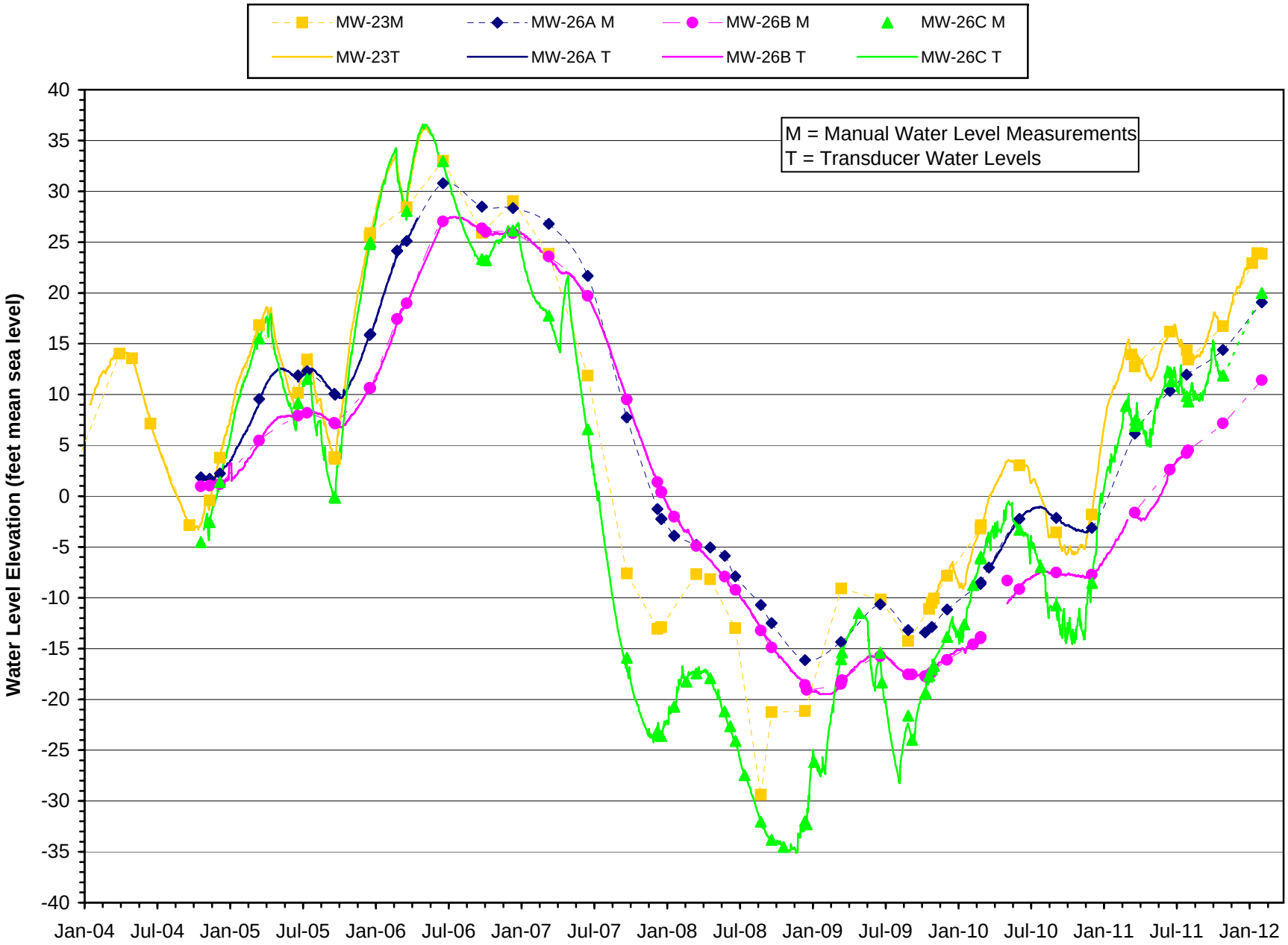


FIGURE 16. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, MONITOR WELL CLUSTER MW-23/26A/26B/26C

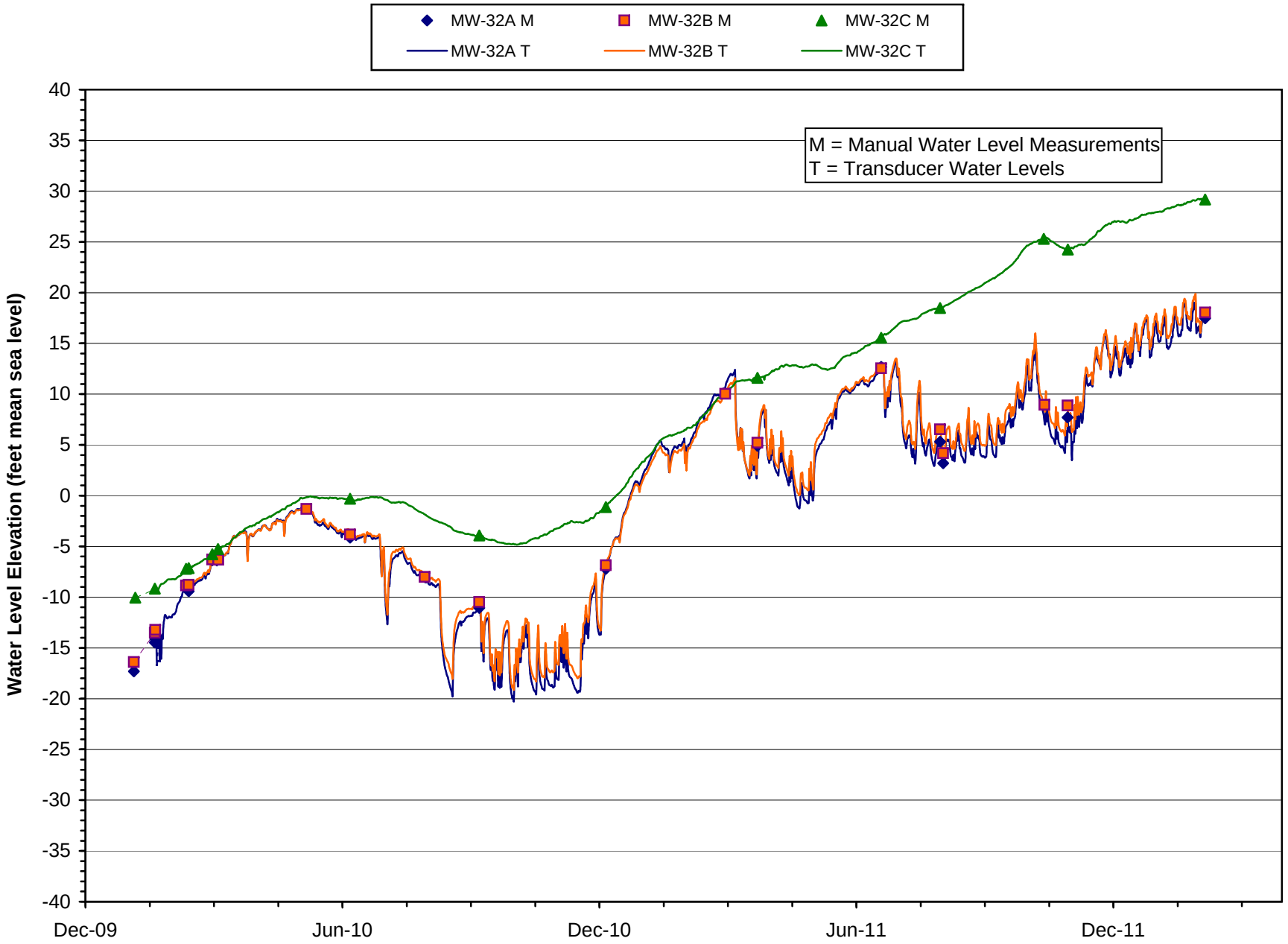


FIGURE 17. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, NESTED MONITOR WELLS MW-32A/32B/32C

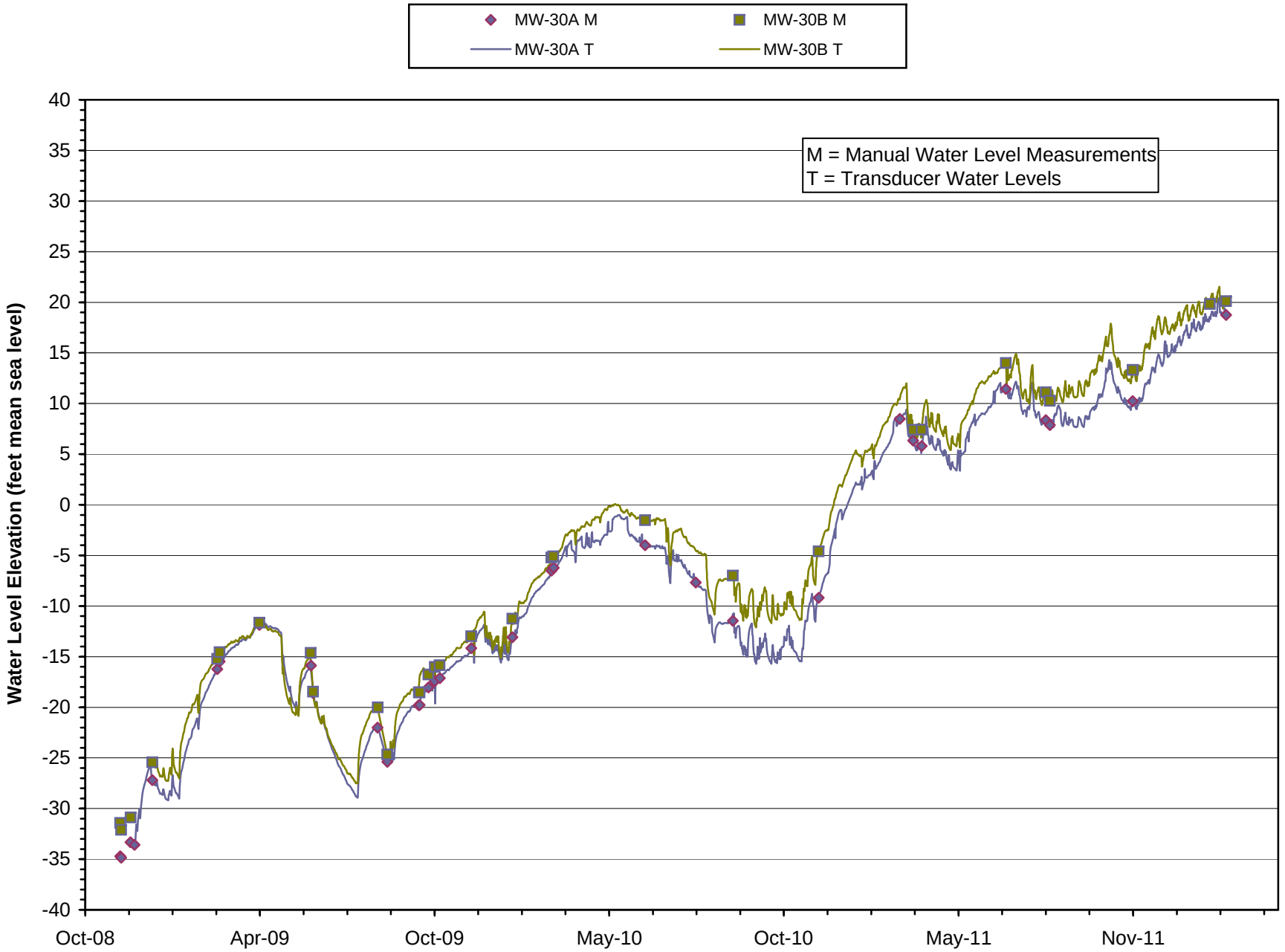


FIGURE 18. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, NESTED MONITOR WELLS MW-30A/30B

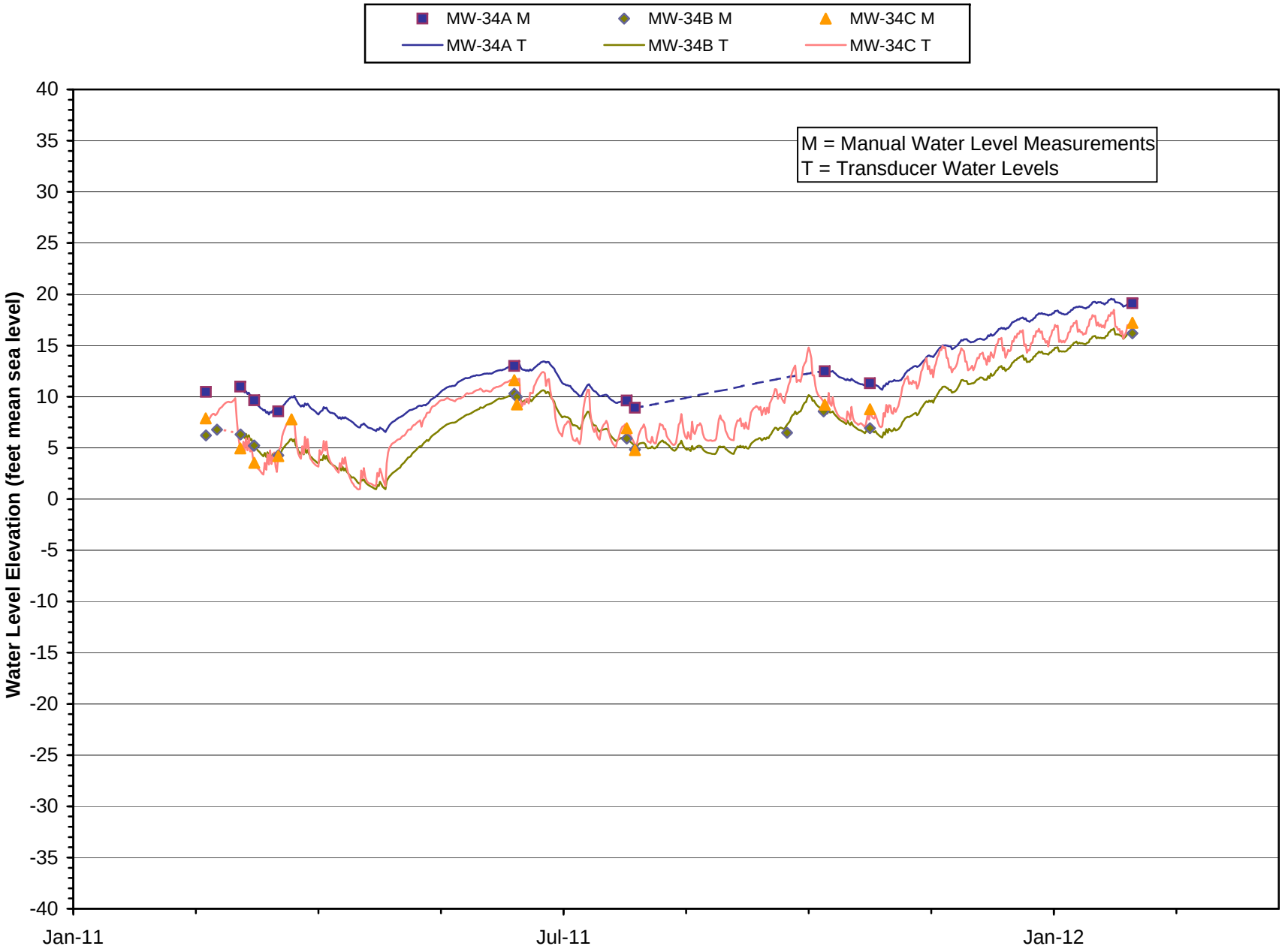


FIGURE 19. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, MONITOR WELL CLUSTER MW-34A/34B/34C

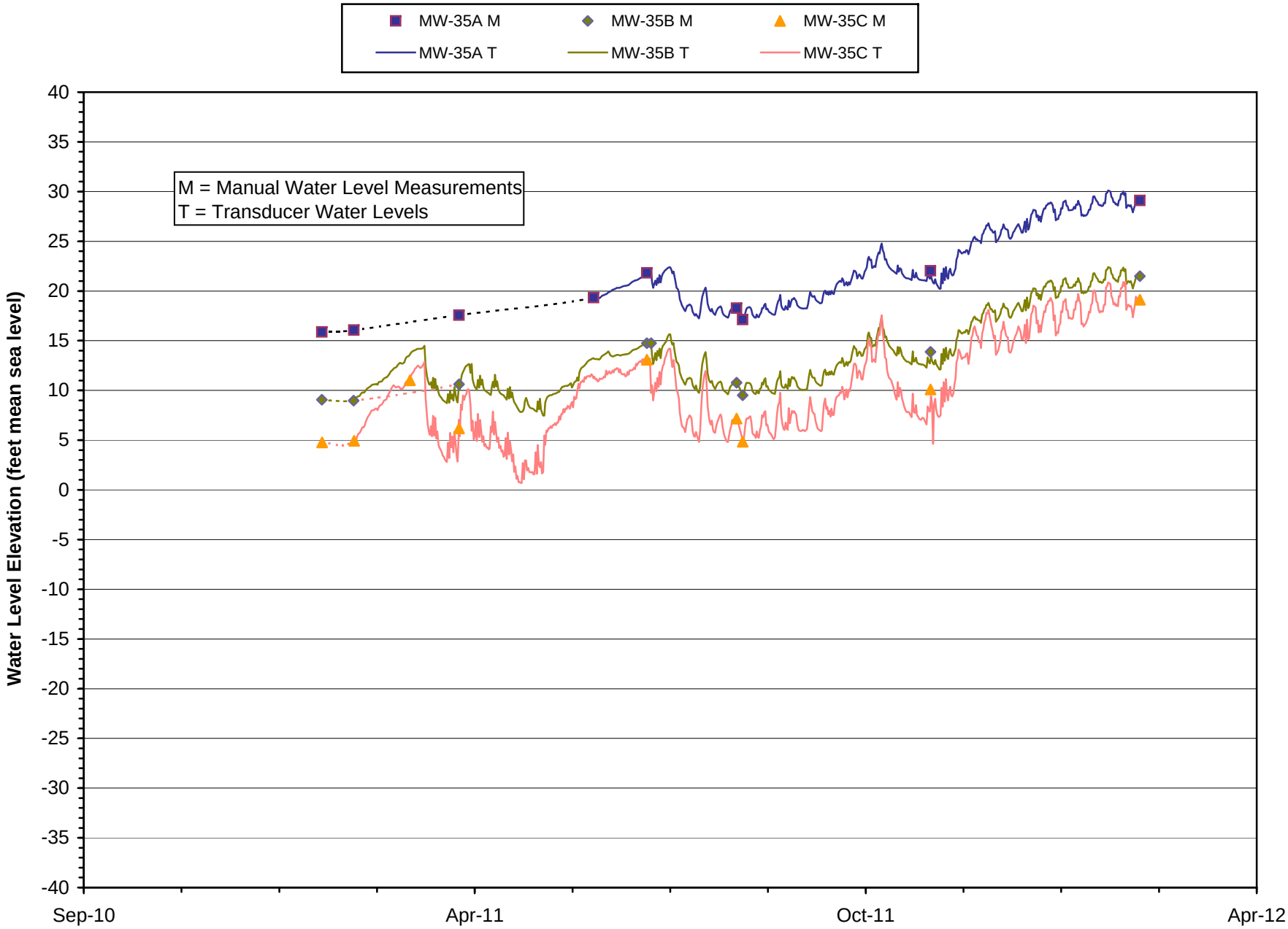


FIGURE 20. REGIONAL GROUNDWATER SYSTEM WATER LEVELS, NESTED MONITOR WELLS MW-35A/35B/35C

EXPLANATION

MW-09 GROUNDWATER MONITOR WELL

MW-25 GROUNDWATER PIEZOMETER

P-09 PERCHED ZONE PIEZOMETER

EW-01 GROUNDWATER EXTRACTION WELL

MW-10 FORMER GROUNDWATER MONITOR WELL (ABANDONED)

P-04 FORMER PERCHED ZONE PIEZOMETER (ABANDONED)

DPE-05 FORMER PERCHED ZONE DUAL-PHASE EXTRACTION WELL (ABANDONED)

EB-01 FORMER GROUNDWATER ASSESSMENT SOIL BORING (ABANDONED)

PGETS PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM FACILITY COMPOUND

FORMER RAYTHEON BUILDING, DEMOLISHED MID-2000

CURRENT RESIDENTIAL AND COMMERCIAL BUILDINGS

DRIVEWAYS, PARKING LOTS AND OTHER HARDSCAPE OF SITE RE-DEVELOPMENT

SITE BOUNDARY

NA NOT ANALYZED

E RESULT QUALIFIED AS "ESTIMATED" IN ACCORDANCE WITH QUALITY CONTROL CRITERIA

1,1-DCE 1,1-DICHLOROETHENE

DIOX 1,4-DIOXANE

TCE TRICHLOROETHENE

< LESS THAN; VALUE IS THE LIMIT OF DETECTION FOR RESPECTIVE COMPOUND

NOTES:

1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER.
2. ONLY ORIGINAL SAMPLE RESULTS POSTED.

HYDROGEOLOGIC ZONES:

PERCHED	AB	C
OTHER	B	D
A	BC	

MW-34A (A)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	<0.20
AUG 2011	<0.50	<0.50	<0.20
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-34B (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	21E	<0.50	8.1
AUG 2011	410	0.65	84E
NOV 2011	502	0.7	196
FEB 2012	550E	<2.5	64E

MW-34C (BC)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	<0.20
AUG 2011	<0.50	<0.50	<0.20
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-09 (C)

DATE	1,1-DCE	TCE	DIOX
AUG 2011	<0.50	<0.50	0.59
FEB 2012	<0.50	<0.50	<0.20

MW-08 (BC)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	67	210	0.75
AUG 2011	190	480	0.69
NOV 2011	39.4	200	0.4
FEB 2012	29	170	0.94

MW-29 (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	220	4.5	30
AUG 2011	330	5.6	45E
NOV 2011	804	6.0	301
FEB 2012	900E	7.5	130E

MW-15 (AB)

DATE	1,1-DCE	TCE	DIOX
AUG 2011	<0.50	3.9	NA
FEB 2012	<0.50	4.0	NA

EW-02 (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	67	<0.50	20
AUG 2011	75	<0.50	21
NOV 2011	55	<0.5	22
FEB 2012	54	<0.50	6.4

MW-30A (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	0.52	<0.50	0.21
AUG 2011	0.93	<0.50	NA
NOV 2011	0.5	<0.5	0.3
FEB 2012	0.66	<0.50	<0.20

MW-30B (BC)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	14	87	0.56
AUG 2011	18E	87	<0.20
NOV 2011	13.6	80.7	0.4
FEB 2012	14	75	0.30

MW-28 (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	1.6	<0.50	0.49
AUG 2011	1.7	<0.50	0.53
NOV 2011	1.1	<0.5	0.3
FEB 2012	0.84	<0.50	<0.20

MW-23 (A)

DATE	1,1-DCE	TCE	DIOX
NOV 2011	<0.5	<0.5	NA
FEB 2012	<0.50	<0.50	NA

MW-32A (AB)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	0.57
AUG 2011	<0.50	<0.50	<0.20
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-32B (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	35	31	1.6
AUG 2011	77	54	2.5
NOV 2011	69.9	48.6	2.3
FEB 2012	73	44	1.5

MW-32C (C)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	1.0
AUG 2011	<0.50	<0.50	<0.20
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-31 (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	61	5.1	0.51
AUG 2011	93	6.9	1.1
NOV 2011	32.6	4.4	<2.0
FEB 2012	26	3.8	<0.20

MW-33 (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	6.4	1.4	<0.20
AUG 2011	5.7	1.3	<0.20
NOV 2011	1.7	0.5	<0.2
FEB 2012	3.9	<0.50	<0.20

MW-36 (B)

DATE	1,1-DCE	TCE	DIOX
JAN 2012	4.0	<0.50	<0.20
JAN 2012	5.2	<0.50	<0.20
FEB 2012	2.9	<0.50	<0.20

MW-35A (OTHER)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	<0.20
AUG 2011	<0.50	<0.50	<0.20
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-35B (A)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	<0.20
AUG 2011	<0.50	<0.50	<0.20
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-35C (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	<0.20
AUG 2011	<0.50	<0.50	<0.20
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-26C (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	<0.50	<0.50	<0.20
AUG 2011	<0.50	<0.50	0.34
NOV 2011	<0.5	<0.5	<0.2
FEB 2012	<0.50	<0.50	<0.20

MW-27 (B)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	<0.50	<0.50	<0.20

MW-13 (AB)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	<0.50	<0.50	<0.20

MW-20 (D)

DATE	1,1-DCE	TCE	DIOX
AUG 2011	<0.50	<0.50	0.80
FEB 2012	2.8	<0.50	<2.0

MW-06 (D)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	<0.50	<0.50	NA

P-09 (PERCHED)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	2.0	<0.50	0.68

MW-19 (A)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	<0.50	<0.50	NA

MW-18 (A)

DATE	1,1-DCE	TCE	DIOX
AUG 2011	<0.50	<0.50	<0.20
FEB 2012	<0.50	<0.50	<0.20

MW-22 (A)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	<0.50	<0.50	<0.20

MW-16 (B)

DATE	1,1-DCE	TCE	DIOX
AUG 2011	910	5.3	260
FEB 2012	95	<1.0	44

MW-24 (C)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	<0.50	<0.50	<0.20

MW-21 (BC)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	2,700	24	400
AUG 2011	2,400	24E	360E
NOV 2011	1,600	22	390
FEB 2012	520	11	33

EW-01 (B)

DATE	1,1-DCE	TCE	DIOX
JUN 2011	180	0.52	59
AUG 2011	370	0.55	80E
NOV 2011	82	<0.5	54
FEB 2012	59	<0.50	11

DETAIL AREA

P-07 (PERCHED)

DATE	1,1-DCE	TCE	DIOX
FEB 2012	2,800	<20	2,200

SEE DETAIL BELOW

CITY OF FULLERTON WELL NO. 9

0 200 400 FEET

0 50 100 FEET

May 31, 2012 - 9:53am ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\WaterQual\210-4176.dwg

HARGIS + ASSOCIATES, INC.
Hydrogeology/Engineering

05/12 | RPT NO. 532.31 | 210-4176 | A

FIGURE 21.
1,1-DICHLOROETHYLENE, TRICHLOROETHYLENE AND 1,4-DIOXANE IN THE REGIONAL GROUNDWATER SYSTEM JUNE 2011 THROUGH FEBRUARY 2012

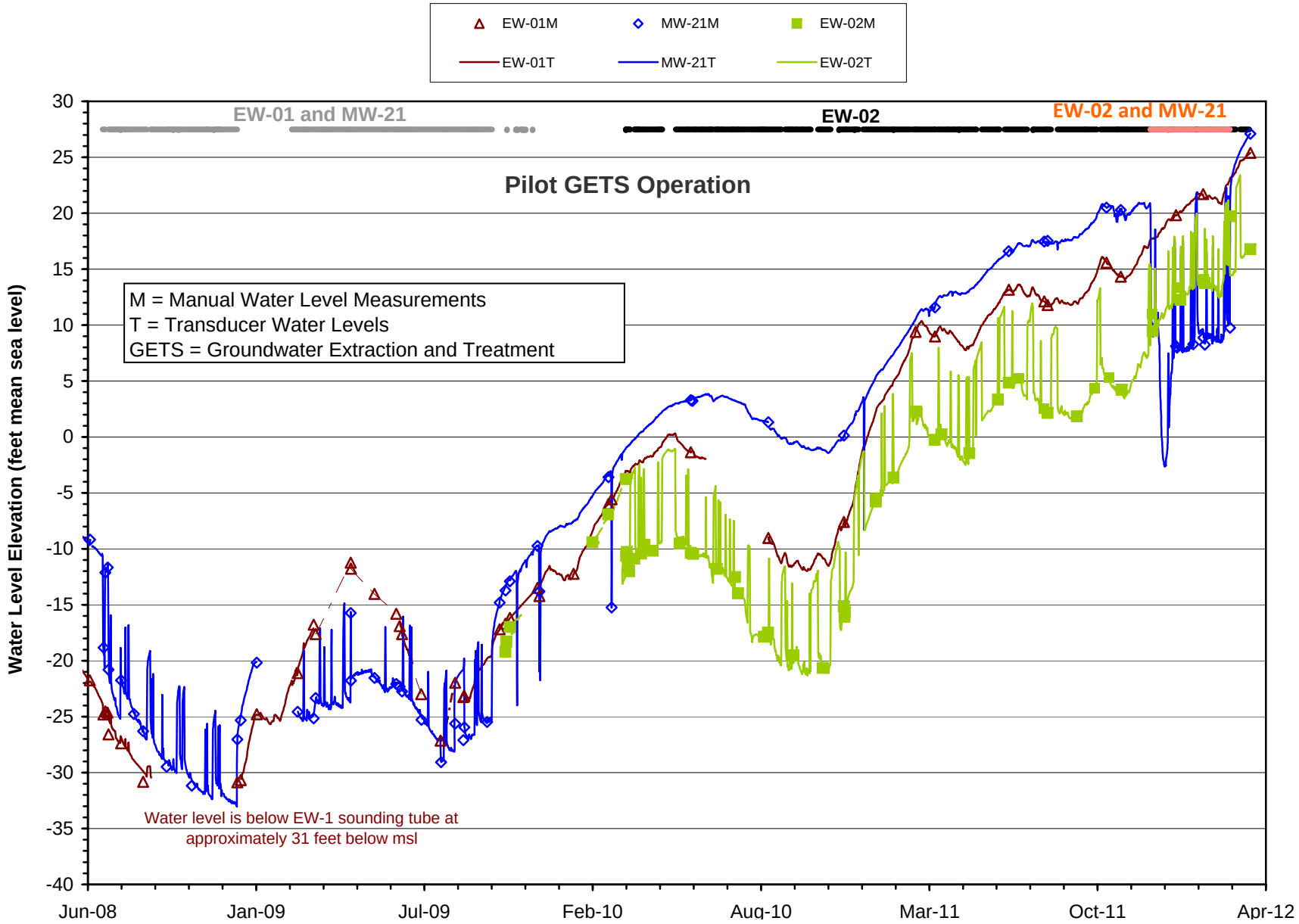


FIGURE 22.
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM OPERATION AND EXTRACTION WELL WATER LEVELS

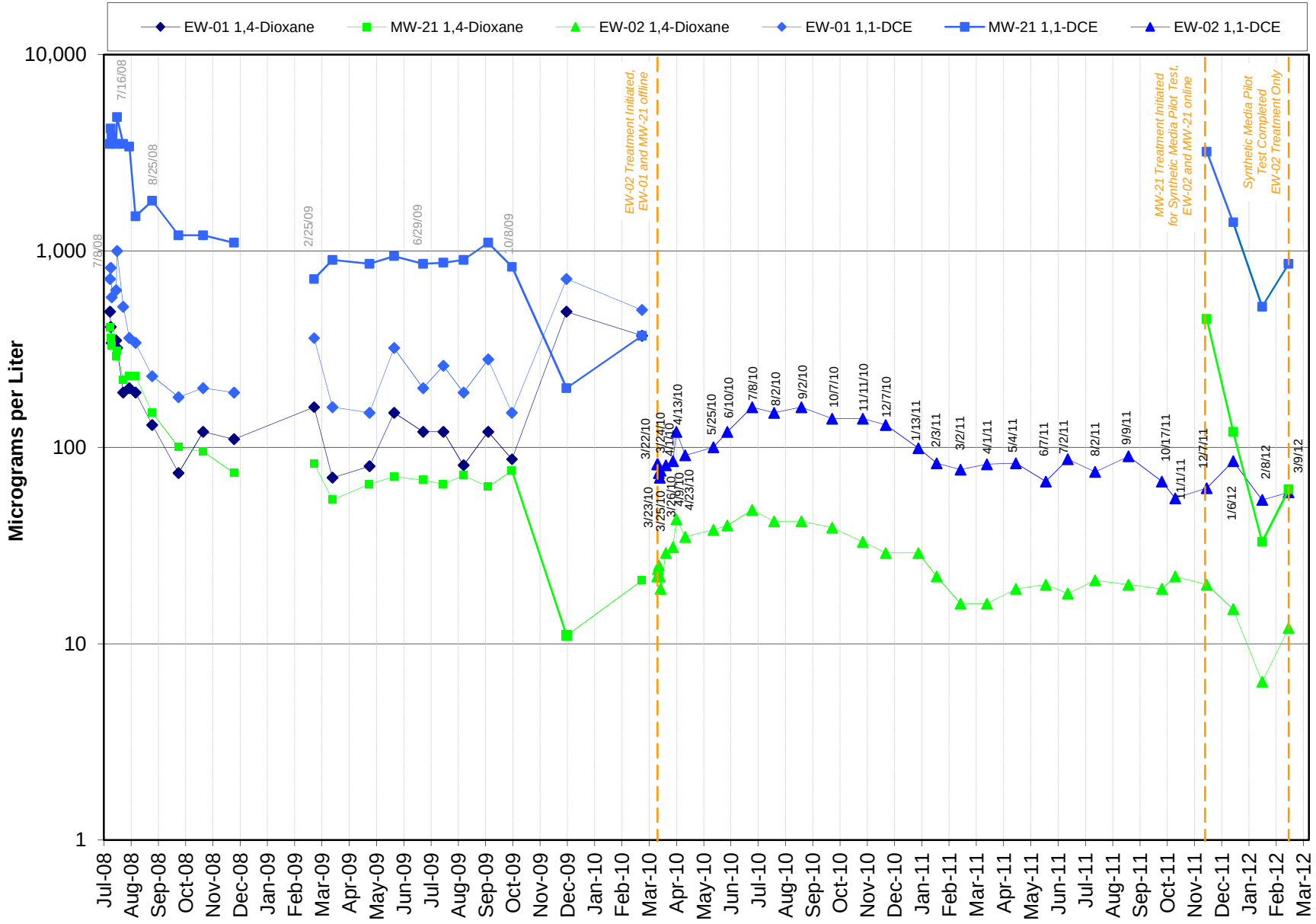
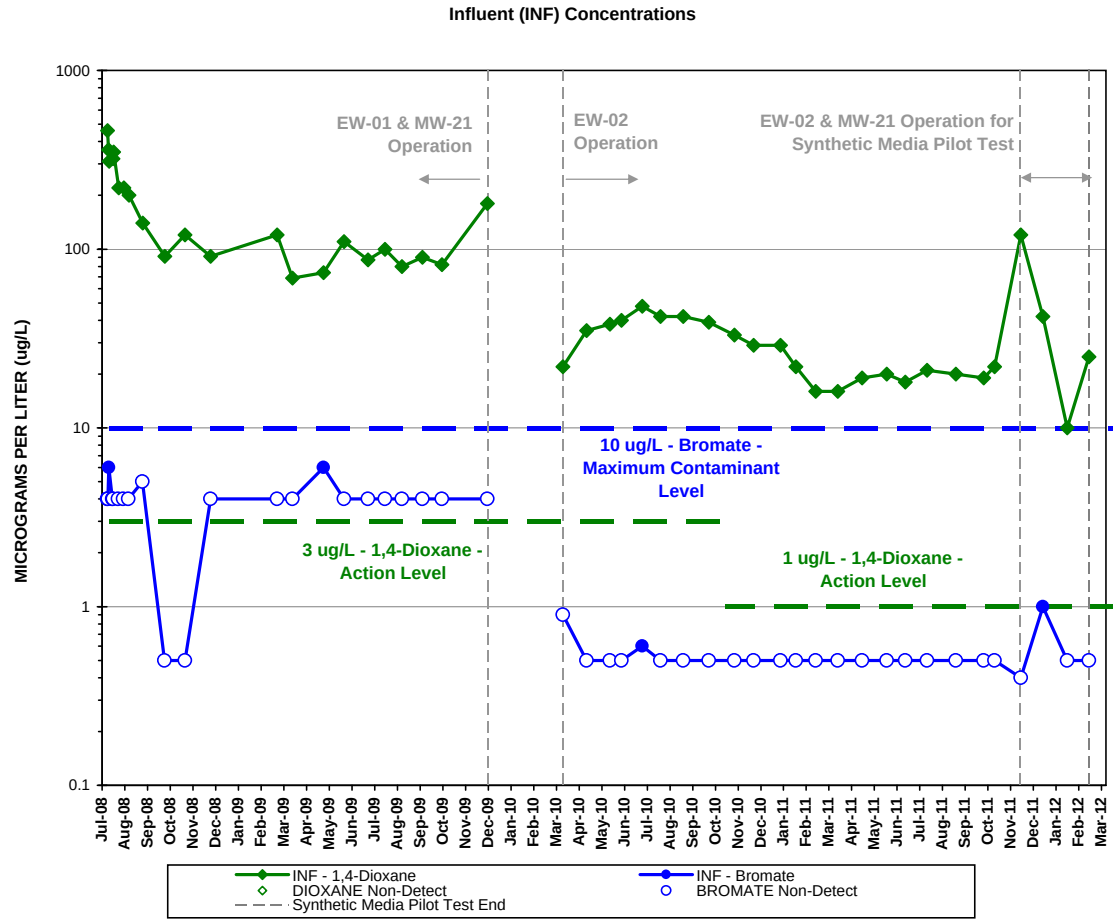


FIGURE 23.
1,1-DICHLOROETHYLENE AND 1,4-DIOXANE IN EXTRACTION WELLS EW-01, MW-21, AND EW-02



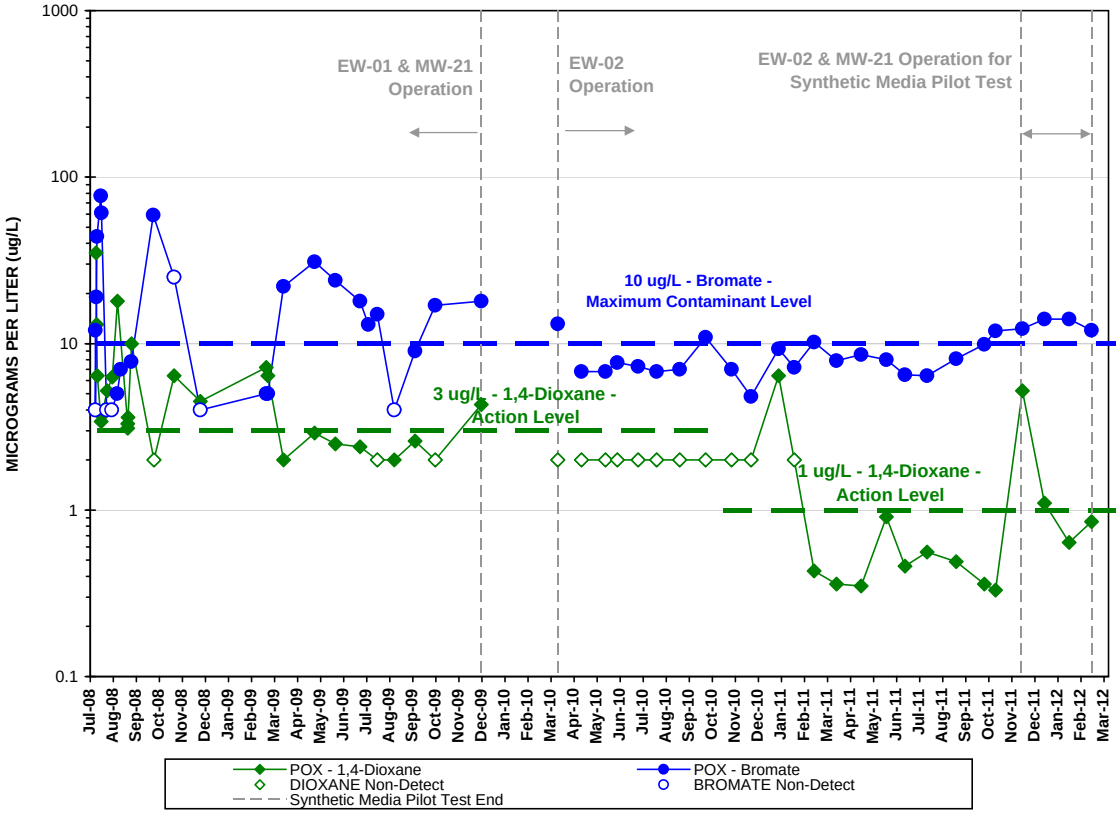


FIGURE 24.
1,4-DIOXANE AND BROMATE IN INFLUENT AND POST-OX. SAMPLES

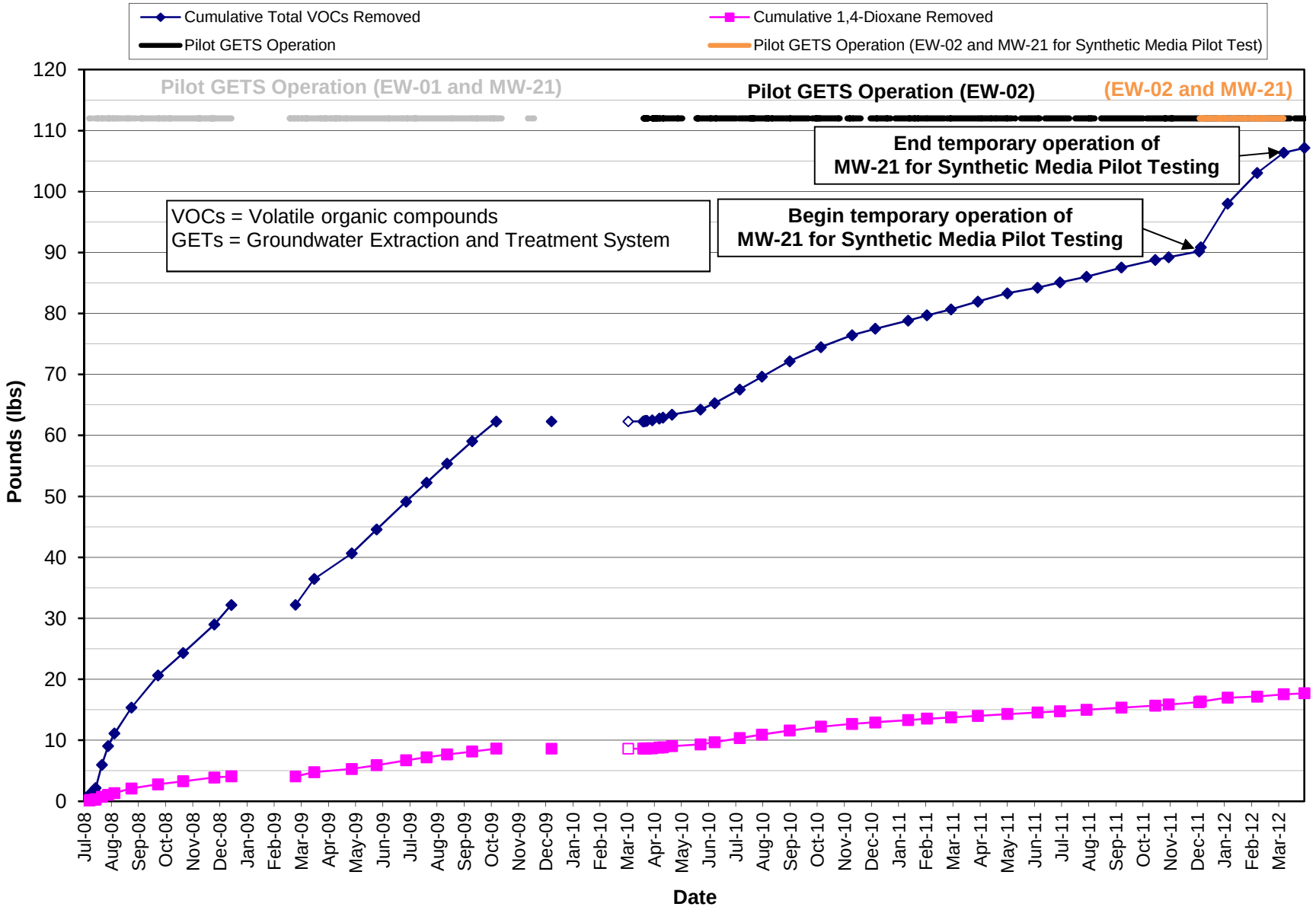
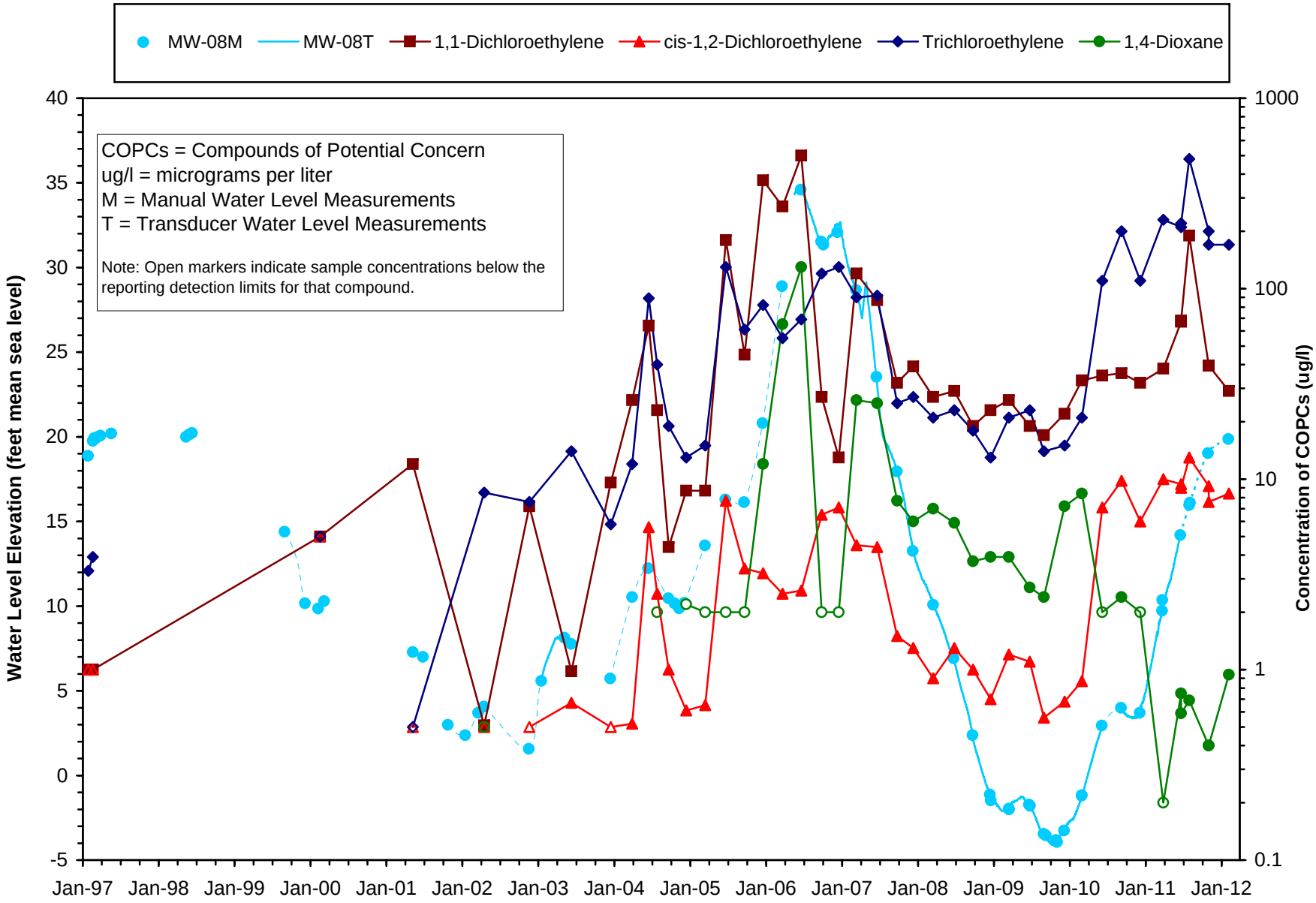


FIGURE 25.
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM MASS REMOVAL



532 H01_Rpt 2012-2_FIG26.xls

FIGURE 26. WATER LEVEL AND WATER QUALITY, MONITOR WELL MW-08

APPENDIX A

LABORATORY ANALYTICAL REPORTS

APPENDIX A

LABORATORY ANALYTICAL REPORTS
(SECOND QUARTER 2011)

GROUNDWATER SAMPLING ANALYTICAL RESULTS

June 28, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118560

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on June 21, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-062111
Lab Order:	118560	**Collection Date:**	6/21/2011 8:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	118560-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623B QC Batch: Q11VW114 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Benzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Bromoform	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Chloroform	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 08:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-062111
Lab Order:	118560	**Collection Date:**	6/21/2011 8:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	118560-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623B QC Batch: Q11VW114 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 08:37 PM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 08:37 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Styrene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Toluene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Trichloroethene	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 08:37 PM
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	6/23/2011 08:37 PM
Surr: 4-Bromofluorobenzene	97.8	70-130		%REC	1	6/23/2011 08:37 PM
Surr: Dibromofluoromethane	92.9	70-130		%REC	1	6/23/2011 08:37 PM
Surr: Toluene-d8	97.5	70-130		%REC	1	6/23/2011 08:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-28
Lab Order:	118560	**Collection Date:**	6/21/2011 9:58:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,1-Dichloroethene	1.6	0.50		µg/L	1	6/23/2011 11:02 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Benzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Bromoform	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Chloroform	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 11:02 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-28
Lab Order:	118560	**Collection Date:**	6/21/2011 9:58:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS2_110623A	QC Batch: Q11VW113			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 11:02 AM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 11:02 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Styrene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Toluene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Trichloroethene	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 11:02 AM
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%REC	1	6/23/2011 11:02 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%REC	1	6/23/2011 11:02 AM
Surr: Dibromofluoromethane	90.8	70-130		%REC	1	6/23/2011 11:02 AM
Surr: Toluene-d8	94.5	70-130		%REC	1	6/23/2011 11:02 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-28
Lab Order:	118560	**Collection Date:**	6/21/2011 9:58:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110623A	QC Batch: 73836			PrepDate: 6/23/2011	Analyst: **JSD**	
1,4-Dioxane	0.49	0.20		µg/L	1	6/23/2011 07:16 PM
Surr: 1,2-Dichlorobenzene-d4	84.9	58-99		%REC	1	6/23/2011 07:16 PM
Surr: 2-Fluorobiphenyl	89.3	60-104		%REC	1	6/23/2011 07:16 PM
Surr: 4-Terphenyl-d14	109	65-127		%REC	1	6/23/2011 07:16 PM
Surr: Nitrobenzene-d5	80.7	50-136		%REC	1	6/23/2011 07:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30A
Lab Order:	118560	**Collection Date:**	6/21/2011 10:48:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,1-Dichloroethene	0.52	0.50		µg/L	1	6/23/2011 11:23 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Benzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Bromoform	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Chloroform	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 11:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30A
Lab Order:	118560	**Collection Date:**	6/21/2011 10:48:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110623A	QC Batch: Q11VW113			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 11:23 AM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 11:23 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Styrene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Toluene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Trichloroethene	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 11:23 AM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	6/23/2011 11:23 AM
Surr: 4-Bromofluorobenzene	95.7	70-130		%REC	1	6/23/2011 11:23 AM
Surr: Dibromofluoromethane	92.0	70-130		%REC	1	6/23/2011 11:23 AM
Surr: Toluene-d8	93.9	70-130		%REC	1	6/23/2011 11:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30A
Lab Order:	118560	**Collection Date:**	6/21/2011 10:48:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110623A	QC Batch: 73836			PrepDate: 6/23/2011	Analyst: **JSD**	
1,4-Dioxane	0.21	0.20		µg/L	1	6/23/2011 07:46 PM
Surr: 1,2-Dichlorobenzene-d4	85.7	58-99		%REC	1	6/23/2011 07:46 PM
Surr: 2-Fluorobiphenyl	93.6	60-104		%REC	1	6/23/2011 07:46 PM
Surr: 4-Terphenyl-d14	106	65-127		%REC	1	6/23/2011 07:46 PM
Surr: Nitrobenzene-d5	83.7	50-136		%REC	1	6/23/2011 07:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30B
Lab Order:	118560	**Collection Date:**	6/21/2011 11:34:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,1-Dichloroethene	14	0.50		µg/L	1	6/23/2011 11:44 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Benzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Bromoform	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Chloroform	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
cis-1,2-Dichloroethene	4.3	0.50		µg/L	1	6/23/2011 11:44 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30B
Lab Order:	118560	**Collection Date:**	6/21/2011 11:34:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 11:44 AM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 11:44 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Styrene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Toluene	3.5	0.50		µg/L	1	6/23/2011 11:44 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Trichloroethene	87	0.50		µg/L	1	6/23/2011 11:44 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 11:44 AM
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%REC	1	6/23/2011 11:44 AM
Surr: 4-Bromofluorobenzene	96.1	70-130		%REC	1	6/23/2011 11:44 AM
Surr: Dibromofluoromethane	90.6	70-130		%REC	1	6/23/2011 11:44 AM
Surr: Toluene-d8	91.5	70-130		%REC	1	6/23/2011 11:44 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30B
Lab Order:	118560	**Collection Date:**	6/21/2011 11:34:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110623A	QC Batch: 73836			PrepDate: 6/23/2011	Analyst: **JSD**	
1,4-Dioxane	0.56	0.20		µg/L	1	6/23/2011 08:16 PM
Surr: 1,2-Dichlorobenzene-d4	86.0	58-99		%REC	1	6/23/2011 08:16 PM
Surr: 2-Fluorobiphenyl	94.2	60-104		%REC	1	6/23/2011 08:16 PM
Surr: 4-Terphenyl-d14	107	65-127		%REC	1	6/23/2011 08:16 PM
Surr: Nitrobenzene-d5	86.6	50-136		%REC	1	6/23/2011 08:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34C
Lab Order:	118560	**Collection Date:**	6/21/2011 1:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Benzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Bromoform	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Chloroform	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34C
Lab Order:	118560	**Collection Date:**	6/21/2011 1:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 12:04 PM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 12:04 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Styrene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Toluene	2.1	0.50		µg/L	1	6/23/2011 12:04 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Trichloroethene	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 12:04 PM
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%REC	1	6/23/2011 12:04 PM
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	6/23/2011 12:04 PM
Surr: Dibromofluoromethane	93.3	70-130		%REC	1	6/23/2011 12:04 PM
Surr: Toluene-d8	93.8	70-130		%REC	1	6/23/2011 12:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34C
Lab Order:	118560	**Collection Date:**	6/21/2011 1:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-007B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110623A	QC Batch: 73836			PrepDate: 6/23/2011	Analyst: **JSD**	
1,4-Dioxane	ND	0.20		µg/L	1	6/24/2011 10:13 AM
Surr: 1,2-Dichlorobenzene-d4	72.7	58-99		%REC	1	6/24/2011 10:13 AM
Surr: 2-Fluorobiphenyl	79.0	60-104		%REC	1	6/24/2011 10:13 AM
Surr: 4-Terphenyl-d14	99.1	65-127		%REC	1	6/24/2011 10:13 AM
Surr: Nitrobenzene-d5	69.6	50-136		%REC	1	6/24/2011 10:13 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34A
Lab Order:	118560	**Collection Date:**	6/21/2011 2:12:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Benzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Bromoform	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Chloroform	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34A
Lab Order:	118560	**Collection Date:**	6/21/2011 2:12:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 12:25 PM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 12:25 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Styrene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Toluene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Trichloroethene	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Trichlorofluoromethane	1.5	0.50		µg/L	1	6/23/2011 12:25 PM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 12:25 PM
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%REC	1	6/23/2011 12:25 PM
Surr: 4-Bromofluorobenzene	97.6	70-130		%REC	1	6/23/2011 12:25 PM
Surr: Dibromofluoromethane	95.8	70-130		%REC	1	6/23/2011 12:25 PM
Surr: Toluene-d8	99.8	70-130		%REC	1	6/23/2011 12:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34A
Lab Order:	118560	**Collection Date:**	6/21/2011 2:12:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-008B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110623A	QC Batch: 73836			PrepDate: 6/23/2011	Analyst: **JSD**	
1,4-Dioxane	ND	0.20		µg/L	1	6/24/2011 10:43 AM
Surr: 1,2-Dichlorobenzene-d4	89.0	58-99		%REC	1	6/24/2011 10:43 AM
Surr: 2-Fluorobiphenyl	98.7	60-104		%REC	1	6/24/2011 10:43 AM
Surr: 4-Terphenyl-d14	125	65-127		%REC	1	6/24/2011 10:43 AM
Surr: Nitrobenzene-d5	84.6	50-136		%REC	1	6/24/2011 10:43 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34B
Lab Order:	118560	**Collection Date:**	6/21/2011 2:56:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,1-Dichloroethene	21	0.50		µg/L	1	6/23/2011 12:46 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Benzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Bromoform	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Chloroform	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34B
Lab Order:	118560	**Collection Date:**	6/21/2011 2:56:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-009A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110623A	QC Batch: Q11VW113			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 12:46 PM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 12:46 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Styrene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Toluene	1.8	0.50		µg/L	1	6/23/2011 12:46 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Trichloroethene	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 12:46 PM
Surr: 1,2-Dichloroethane-d4	97.8	70-130		%REC	1	6/23/2011 12:46 PM
Surr: 4-Bromofluorobenzene	96.3	70-130		%REC	1	6/23/2011 12:46 PM
Surr: Dibromofluoromethane	94.7	70-130		%REC	1	6/23/2011 12:46 PM
Surr: Toluene-d8	96.2	70-130		%REC	1	6/23/2011 12:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34B
Lab Order:	118560	**Collection Date:**	6/21/2011 2:56:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-009B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110623A	QC Batch: 73836			PrepDate: 6/23/2011	Analyst: **JSD**	
1,4-Dioxane	8.1	2.0		µg/L	10	6/24/2011 06:44 PM
Surr: 1,2-Dichlorobenzene-d4	89.9	58-99		%REC	10	6/24/2011 06:44 PM
Surr: 2-Fluorobiphenyl	101	60-104		%REC	10	6/24/2011 06:44 PM
Surr: 4-Terphenyl-d14	111	65-127		%REC	10	6/24/2011 06:44 PM
Surr: Nitrobenzene-d5	73.7	50-136		%REC	10	6/24/2011 06:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-29
Lab Order:	118560	**Collection Date:**	6/21/2011 4:43:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-010A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,1,2-Trichloroethane	0.55	0.50		µg/L	1	6/23/2011 01:06 PM
1,1-Dichloroethane	2.0	0.50		µg/L	1	6/23/2011 01:06 PM
1,1-Dichloroethene	220	5.0		µg/L	10	6/23/2011 01:27 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Benzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Bromobenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Bromoform	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Bromomethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Chlorobenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Chloroethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Chloroform	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Chloromethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 01:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-29
Lab Order:	118560	**Collection Date:**	6/21/2011 4:43:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-010A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110623A QC Batch: Q11VW113 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Dibromomethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Ethylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
m,p-Xylene	ND	1.0		µg/L	1	6/23/2011 01:06 PM
Methylene chloride	ND	1.0		µg/L	1	6/23/2011 01:06 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Naphthalene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
o-Xylene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Styrene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Tetrachloroethene	0.85	0.50		µg/L	1	6/23/2011 01:06 PM
Toluene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Trichloroethene	4.5	0.50		µg/L	1	6/23/2011 01:06 PM
Trichlorofluoromethane	0.71	0.50		µg/L	1	6/23/2011 01:06 PM
Vinyl chloride	ND	0.50		µg/L	1	6/23/2011 01:06 PM
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%REC	1	6/23/2011 01:06 PM
Surr: 1,2-Dichloroethane-d4	96.4	70-130		%REC	10	6/23/2011 01:27 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	1	6/23/2011 01:06 PM
Surr: 4-Bromofluorobenzene	93.6	70-130		%REC	10	6/23/2011 01:27 PM
Surr: Dibromofluoromethane	97.2	70-130		%REC	1	6/23/2011 01:06 PM
Surr: Dibromofluoromethane	95.3	70-130		%REC	10	6/23/2011 01:27 PM
Surr: Toluene-d8	95.4	70-130		%REC	10	6/23/2011 01:27 PM
Surr: Toluene-d8	94.0	70-130		%REC	1	6/23/2011 01:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-29
Lab Order:	118560	**Collection Date:**	6/21/2011 4:43:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118560-010B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110623A	QC Batch: 73836			PrepDate: 6/23/2011	Analyst: **JSD**	
1,4-Dioxane	30	2.0		µg/L	10	6/24/2011 07:17 PM
Surr: 1,2-Dichlorobenzene-d4	87.9	58-99		%REC	10	6/24/2011 07:17 PM
Surr: 2-Fluorobiphenyl	94.5	60-104		%REC	10	6/24/2011 07:17 PM
Surr: 4-Terphenyl-d14	117	65-127		%REC	10	6/24/2011 07:17 PM
Surr: Nitrobenzene-d5	68.1	50-136		%REC	10	6/24/2011 07:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **LCSW** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.020	0.50	20.00	0	90.1	70	130				
Benzene	38.680	0.50	40.00	0	96.7	70	130				
Chlorobenzene	20.440	0.50	20.00	0	102	70	130				
MTBE	18.090	0.50	20.00	0	90.4	70	130				
Toluene	41.000	0.50	40.00	0	103	70	130				
Trichloroethene	19.420	0.50	20.00	0	97.1	70	130				
Surr: 1,2-Dichloroethane-d4	21.040		25.00		84.2	70	130				
Surr: 4-Bromofluorobenzene	24.470		25.00		97.9	70	130				
Surr: Dibromofluoromethane	22.250		25.00		89.0	70	130				
Surr: Toluene-d8	24.820		25.00		99.3	70	130				

Sample ID: **Q110623MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **ZZZZZZ** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.630	0.50	20.00	0	93.2	70	130				
Benzene	39.230	0.50	40.00	0	98.1	70	130				
Chlorobenzene	20.240	0.50	20.00	0	101	70	130				
Toluene	41.760	0.50	40.00	0	104	70	130				
Trichloroethene	19.950	0.50	20.00	0	99.8	70	130				
Surr: 1,2-Dichloroethane-d4	21.850		25.00		87.4	70	130				
Surr: 4-Bromofluorobenzene	25.040		25.00		100	70	130				
Surr: Dibromofluoromethane	22.950		25.00		91.8	70	130				
Surr: Toluene-d8	25.550		25.00		102	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **ZZZZZZ** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196957**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.450	0.50	20.00	0	92.2	70	130	18.63	0.971	20	
Benzene	38.500	0.50	40.00	0	96.2	70	130	39.23	1.88	20	
Chlorobenzene	19.750	0.50	20.00	0	98.8	70	130	20.24	2.45	20	
Toluene	40.430	0.50	40.00	0	101	70	130	41.76	3.24	20	
Trichloroethene	19.890	0.50	20.00	0	99.4	70	130	19.95	0.301	20	
Surr: 1,2-Dichloroethane-d4	21.050		25.00		84.2	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.120		25.00		96.5	70	130		0	0	
Surr: Dibromofluoromethane	22.060		25.00		88.2	70	130		0	0	
Surr: Toluene-d8	25.110		25.00		100	70	130		0	0	

Sample ID: **Q110623MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **PBW** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **PBW** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **PBW** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196958**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.530		25.00		98.1	70	130				
Surr: 4-Bromofluorobenzene	25.560		25.00		102	70	130				
Surr: Dibromofluoromethane	25.020		25.00		100	70	130				
Surr: Toluene-d8	25.620		25.00		102	70	130				

Sample ID: **118560-004AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **MSD-062111** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196976**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.990	0.50	20.00	0.5200	112	70	130	23.08	0.391	20	
Benzene	41.850	0.50	40.00	0	105	70	130	41.72	0.311	20	
Chlorobenzene	21.460	0.50	20.00	0	107	70	130	21.52	0.279	20	
MTBE	18.700	0.50	20.00	0	93.5	70	130	19.03	1.75	20	
Toluene	45.120	0.50	40.00	0	113	70	130	44.71	0.913	20	
Trichloroethene	22.540	0.50	20.00	0	113	70	130	22.33	0.936	20	
Surr: 1,2-Dichloroethane-d4	22.100		25.00		88.4	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.000		25.00		96.0	70	130		0	0	
Surr: Dibromofluoromethane	22.100		25.00		88.4	70	130		0	0	
Surr: Toluene-d8	23.990		25.00		96.0	70	130		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **118560-005AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134326**
Client ID: **MS-062111** Batch ID: **Q11VW113** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2196978**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23.080	0.50	20.00	0.5200	113	70	130				
Benzene	41.720	0.50	40.00	0	104	70	130				
Chlorobenzene	21.520	0.50	20.00	0	108	70	130				
MTBE	19.030	0.50	20.00	0	95.2	70	130				
Toluene	44.710	0.50	40.00	0	112	70	130				
Trichloroethene	22.330	0.50	20.00	0	112	70	130				
Surr: 1,2-Dichloroethane-d4	21.610		25.00		86.4	70	130				
Surr: 4-Bromofluorobenzene	23.900		25.00		95.6	70	130				
Surr: Dibromofluoromethane	21.870		25.00		87.5	70	130				
Surr: Toluene-d8	23.820		25.00		95.3	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623LCS2** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134363**
Client ID: **LCSW** Batch ID: **Q11VW114** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2197018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.730	0.50	20.00	0	93.6	70	130				
Benzene	38.790	0.50	40.00	0	97.0	70	130				
Chlorobenzene	20.240	0.50	20.00	0	101	70	130				
MTBE	18.500	0.50	20.00	0	92.5	70	130				
Toluene	41.950	0.50	40.00	0	105	70	130				
Trichloroethene	20.160	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	21.000		25.00		84.0	70	130				
Surr: 4-Bromofluorobenzene	23.470		25.00		93.9	70	130				
Surr: Dibromofluoromethane	21.420		25.00		85.7	70	130				
Surr: Toluene-d8	23.840		25.00		95.4	70	130				

Sample ID: **Q110623MB6MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134363**
Client ID: **ZZZZZZ** Batch ID: **Q11VW114** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2197019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.950	0.50	20.00	0	89.8	70	130				
Benzene	37.320	0.50	40.00	0	93.3	70	130				
Chlorobenzene	19.490	0.50	20.00	0	97.5	70	130				
Toluene	39.280	0.50	40.00	0	98.2	70	130				
Trichloroethene	18.780	0.50	20.00	0	93.9	70	130				
Surr: 1,2-Dichloroethane-d4	21.030		25.00		84.1	70	130				
Surr: 4-Bromofluorobenzene	23.390		25.00		93.6	70	130				
Surr: Dibromofluoromethane	21.610		25.00		86.4	70	130				
Surr: Toluene-d8	23.540		25.00		94.2	70	130				

Sample ID: **Q110623MB6MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134363**
Client ID: **ZZZZZZ** Batch ID: **Q11VW114** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2197020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.560	0.50	20.00	0	92.8	70	130	17.95	3.34	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623MB6MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134363**
Client ID: **ZZZZZZ** Batch ID: **Q11VW114** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2197020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.940	0.50	40.00	0	99.8	70	130	37.32	6.78	20	
Chlorobenzene	20.920	0.50	20.00	0	105	70	130	19.49	7.08	20	
Toluene	42.750	0.50	40.00	0	107	70	130	39.28	8.46	20	
Trichloroethene	20.760	0.50	20.00	0	104	70	130	18.78	10.0	20	
Surr: 1,2-Dichloroethane-d4	21.610		25.00		86.4	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.160		25.00		96.6	70	130		0	0	
Surr: Dibromofluoromethane	22.280		25.00		89.1	70	130		0	0	
Surr: Toluene-d8	25.130		25.00		101	70	130		0	0	

Sample ID: **Q110623MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134363**
Client ID: **PBW** Batch ID: **Q11VW114** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2197021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134363**
Client ID: **PBW** Batch ID: **Q11VW114** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2197021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110623MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134363**
Client ID: **PBW** Batch ID: **Q11VW114** TestNo: **EPA 8260B** Analysis Date: **6/23/2011** SeqNo: **2197021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.730		25.00		90.9	70	130				
Surr: 4-Bromofluorobenzene	24.170		25.00		96.7	70	130				
Surr: Dibromofluoromethane	23.120		25.00		92.5	70	130				
Surr: Toluene-d8	24.390		25.00		97.6	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **LCS-73836**	SampType: **LCS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **6/23/2011**	RunNo: **134373**
Client ID: **LCSW**	Batch ID: **73836**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **6/23/2011**	SeqNo: **2197480**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.097	0.20	1.000	0	110	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.935		1.000		93.5	58	99				
Surr: 2-Fluorobiphenyl	0.988		1.000		98.8	60	104				
Surr: 4-Terphenyl-d14	1.136		1.000		114	65	127				
Surr: Nitrobenzene-d5	0.904		1.000		90.4	50	136				

Sample ID: **MB-73836MS**	SampType: **MS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **6/23/2011**	RunNo: **134373**
Client ID: **ZZZZZZ**	Batch ID: **73836**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **6/23/2011**	SeqNo: **2197481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.115	0.20	1.000	0	112	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.939		1.000		93.9	58	99				
Surr: 2-Fluorobiphenyl	1.001		1.000		100	60	104				
Surr: 4-Terphenyl-d14	1.138		1.000		114	65	127				
Surr: Nitrobenzene-d5	0.913		1.000		91.3	50	136				

Sample ID: **MB-73836**	SampType: **MBLK**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **6/23/2011**	RunNo: **134373**
Client ID: **PBW**	Batch ID: **73836**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **6/24/2011**	SeqNo: **2197488**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.807		1.000		80.7	58	99				
Surr: 2-Fluorobiphenyl	0.856		1.000		85.6	60	104				
Surr: 4-Terphenyl-d14	1.093		1.000		109	65	127				
Surr: Nitrobenzene-d5	0.774		1.000		77.4	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118560
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-73836MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/23/2011** RunNo: **134373**
Client ID: **ZZZZZZ** Batch ID: **73836** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **6/24/2011** SeqNo: **2198052**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.981	0.20	1.000	0	98.1	70	130	1.115	12.8	30	
Surr: 1,2-Dichlorobenzene-d4	0.952		1.000		95.2	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.997		1.000		99.7	60	104		0	0	
Surr: 4-Terphenyl-d14	1.105		1.000		110	65	127		0	0	
Surr: Nitrobenzene-d5	0.759		1.000		75.9	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 6/21/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE):	SAMPLER (PRINTED): Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	Analyze as Matrix Spike	Analyze as Matrix Spike duplicate	REMARKS
	TB-062111	6/21/11	800				X	X				X	2		X									
	MW-28		958		X			X				X	3	1	X	X	X							
	MW-30A		1048		X			X				X	3	1	X	X	X							
	MS-062111		1050		X			X				X	3		X							X		MW-30A
	MS-062111		1055		X			X				X	3		X						X			MW-30A
	MW-30B		1134		X			X				X	3		X	X		X						
	MW-34C		1340		X			X				X	3	1	X	X	X							
	MW-34A		1412		X			X				X	3	1	X	X	X							
	MW-34B		1456		X			X				X	3	1	X	X		X						
	MW-29		1643		X			X				X	3	1	X	X			X					

Total number of Containers per analysis: 296

Total No. of Containers: 35

Relinquished by:	Date	Time	Received by:	Date	Time
H+A	6/21/11	1715	ATL	6/21/11	1715
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
ATL	6/21/11	1756	FEDEX / ATL	6/21/11	1757
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold (4.7 °C)
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375, SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124, MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220, TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ATL
Attn: Rachelle Arada

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

June 30, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118581

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on June 22, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 118581

CASE NARRATIVE

Analytical Comments for EPA 8270C(M)

Sample 118581-007B, surrogate recovery biased low possibly due to matrix interferences.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc.
Lab Order: 118581
Project: RAYTHEON MAIN, 532.30
Lab ID: 118581-001A

Client Sample ID: TB-062211
Collection Date: 6/22/2011 8:00:00 AM
Matrix: LAB H2O

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Benzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Bromobenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Bromoform	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Bromomethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Chlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Chloroethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Chloroform	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Chloromethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-062211
Lab Order:	118581	**Collection Date:**	6/22/2011 8:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	118581-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS2_110627B	QC Batch: Q11VW119			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Dibromomethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Ethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
m,p-Xylene	ND	1.0		µg/L	1	6/27/2011 08:03 PM
Methylene chloride	ND	1.0		µg/L	1	6/27/2011 08:03 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Naphthalene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
o-Xylene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Styrene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Toluene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Trichloroethene	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Vinyl chloride	ND	0.50		µg/L	1	6/27/2011 08:03 PM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	1	6/27/2011 08:03 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	6/27/2011 08:03 PM
Surr: Dibromofluoromethane	98.2	70-130		%REC	1	6/27/2011 08:03 PM
Surr: Toluene-d8	91.2	70-130		%REC	1	6/27/2011 08:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	118581	**Collection Date:**	6/22/2011 10:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Benzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Bromobenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Bromodichloromethane	0.59	0.50		µg/L	1	6/27/2011 09:25 PM
Bromoform	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Bromomethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Chlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Chloroethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Chloroform	11	0.50		µg/L	1	6/27/2011 09:25 PM
Chloromethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 09:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	118581	**Collection Date:**	6/22/2011 10:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Dibromomethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Ethylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
m,p-Xylene	ND	1.0		µg/L	1	6/27/2011 09:25 PM
Methylene chloride	ND	1.0		µg/L	1	6/27/2011 09:25 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Naphthalene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
o-Xylene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Styrene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Toluene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Trichloroethene	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Vinyl chloride	ND	0.50		µg/L	1	6/27/2011 09:25 PM
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	1	6/27/2011 09:25 PM
Surr: 4-Bromofluorobenzene	90.0	70-130		%REC	1	6/27/2011 09:25 PM
Surr: Dibromofluoromethane	94.6	70-130		%REC	1	6/27/2011 09:25 PM
Surr: Toluene-d8	86.6	70-130		%REC	1	6/27/2011 09:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	118581	**Collection Date:**	6/22/2011 10:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110629A	QC Batch: 73927			PrepDate: 6/28/2011	Analyst: **JSD**	
1,4-Dioxane	ND	0.20		µg/L	1	6/28/2011 09:32 PM
Surr: 1,2-Dichlorobenzene-d4	58.3	58-99		%REC	1	6/28/2011 09:32 PM
Surr: 2-Fluorobiphenyl	68.0	60-104		%REC	1	6/28/2011 09:32 PM
Surr: 4-Terphenyl-d14	81.2	65-127		%REC	1	6/28/2011 09:32 PM
Surr: Nitrobenzene-d5	54.2	50-136		%REC	1	6/28/2011 09:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	118581	**Collection Date:**	6/22/2011 11:20:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Benzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Bromobenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Bromoform	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Bromomethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Chlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Chloroethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Chloroform	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Chloromethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	118581	**Collection Date:**	6/22/2011 11:20:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110627B	QC Batch: Q11VW119			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Dibromomethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Ethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
m,p-Xylene	ND	1.0		µg/L	1	6/27/2011 08:23 PM
Methylene chloride	ND	1.0		µg/L	1	6/27/2011 08:23 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Naphthalene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
o-Xylene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Styrene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Toluene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Trichloroethene	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Vinyl chloride	ND	0.50		µg/L	1	6/27/2011 08:23 PM
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%REC	1	6/27/2011 08:23 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%REC	1	6/27/2011 08:23 PM
Surr: Dibromofluoromethane	98.6	70-130		%REC	1	6/27/2011 08:23 PM
Surr: Toluene-d8	92.7	70-130		%REC	1	6/27/2011 08:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	118581	**Collection Date:**	6/22/2011 11:20:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110629A	QC Batch: 73927			PrepDate: 6/28/2011	Analyst: **JSD**	
1,4-Dioxane	ND	0.20		µg/L	1	6/28/2011 10:03 PM
Surr: 1,2-Dichlorobenzene-d4	60.0	58-99		%REC	1	6/28/2011 10:03 PM
Surr: 2-Fluorobiphenyl	67.1	60-104		%REC	1	6/28/2011 10:03 PM
Surr: 4-Terphenyl-d14	84.3	65-127		%REC	1	6/28/2011 10:03 PM
Surr: Nitrobenzene-d5	55.0	50-136		%REC	1	6/28/2011 10:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	118581	**Collection Date:**	6/22/2011 12:53:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Benzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Bromobenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Bromoform	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Bromomethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Chlorobenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Chloroethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Chloroform	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Chloromethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 09:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	118581	**Collection Date:**	6/22/2011 12:53:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Dibromomethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Ethylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
m,p-Xylene	ND	1.0		µg/L	1	6/27/2011 09:04 PM
Methylene chloride	ND	1.0		µg/L	1	6/27/2011 09:04 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Naphthalene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
o-Xylene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Styrene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Toluene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Trichloroethene	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Vinyl chloride	ND	0.50		µg/L	1	6/27/2011 09:04 PM
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%REC	1	6/27/2011 09:04 PM
Surr: 4-Bromofluorobenzene	87.6	70-130		%REC	1	6/27/2011 09:04 PM
Surr: Dibromofluoromethane	92.1	70-130		%REC	1	6/27/2011 09:04 PM
Surr: Toluene-d8	85.6	70-130		%REC	1	6/27/2011 09:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	118581	**Collection Date:**	6/22/2011 12:53:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110629A	QC Batch: 73927			PrepDate:	6/28/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	6/28/2011 10:33 PM
Surr: 1,2-Dichlorobenzene-d4	59.5	58-99		%REC	1	6/28/2011 10:33 PM
Surr: 2-Fluorobiphenyl	68.0	60-104		%REC	1	6/28/2011 10:33 PM
Surr: 4-Terphenyl-d14	76.5	65-127		%REC	1	6/28/2011 10:33 PM
Surr: Nitrobenzene-d5	54.0	50-136		%REC	1	6/28/2011 10:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-33
Lab Order:	118581	**Collection Date:**	6/22/2011 3:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,1-Dichloroethene	6.4	0.50		µg/L	1	6/27/2011 08:44 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
2-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
4-Chlorotoluene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Benzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Bromobenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Bromodichloromethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Bromoform	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Bromomethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Carbon tetrachloride	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Chlorobenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Chloroethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Chloroform	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Chloromethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-33
Lab Order:	118581	**Collection Date:**	6/22/2011 3:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627B QC Batch: Q11VW119 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Dibromochloromethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Dibromomethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Ethylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Isopropylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
m,p-Xylene	ND	1.0		µg/L	1	6/27/2011 08:44 PM
Methylene chloride	ND	1.0		µg/L	1	6/27/2011 08:44 PM
n-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
n-Propylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Naphthalene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
o-Xylene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
sec-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Styrene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
tert-Butylbenzene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Tetrachloroethene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Toluene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Trichloroethene	1.4	0.50		µg/L	1	6/27/2011 08:44 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Vinyl chloride	ND	0.50		µg/L	1	6/27/2011 08:44 PM
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%REC	1	6/27/2011 08:44 PM
Surr: 4-Bromofluorobenzene	93.6	70-130		%REC	1	6/27/2011 08:44 PM
Surr: Dibromofluoromethane	96.4	70-130		%REC	1	6/27/2011 08:44 PM
Surr: Toluene-d8	90.8	70-130		%REC	1	6/27/2011 08:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-33
Lab Order:	118581	**Collection Date:**	6/22/2011 3:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118581-007B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110629A	QC Batch: 73927			PrepDate: 6/28/2011	Analyst: **JSD**	
1,4-Dioxane	ND	0.20		µg/L	1	6/28/2011 11:04 PM
Surr: 1,2-Dichlorobenzene-d4	56.1	58-99	S	%REC	1	6/28/2011 11:04 PM
Surr: 2-Fluorobiphenyl	64.8	60-104		%REC	1	6/28/2011 11:04 PM
Surr: 4-Terphenyl-d14	70.3	65-127		%REC	1	6/28/2011 11:04 PM
Surr: Nitrobenzene-d5	50.7	50-136		%REC	1	6/28/2011 11:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 118581
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627LCS2** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **LCSW** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/27/2011** SeqNo: **2198331**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.570	0.50	20.00	0	82.8	70	130				
Benzene	35.660	0.50	40.00	0	89.2	70	130				
Chlorobenzene	19.410	0.50	20.00	0	97.0	70	130				
MTBE	17.790	0.50	20.00	0	89.0	70	130				
Toluene	37.540	0.50	40.00	0	93.8	70	130				
Trichloroethene	17.510	0.50	20.00	0	87.6	70	130				
Surr: 1,2-Dichloroethane-d4	21.080		25.00		84.3	70	130				
Surr: 4-Bromofluorobenzene	22.290		25.00		89.2	70	130				
Surr: Dibromofluoromethane	21.840		25.00		87.4	70	130				
Surr: Toluene-d8	22.560		25.00		90.2	70	130				

Sample ID: **Q110627MB6MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **ZZZZZZ** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/27/2011** SeqNo: **2198332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.360	0.50	20.00	0	91.8	70	130				
Benzene	38.590	0.50	40.00	0	96.5	70	130				
Chlorobenzene	20.810	0.50	20.00	0	104	70	130				
Toluene	40.840	0.50	40.00	0	102	70	130				
Trichloroethene	19.110	0.50	20.00	0	95.6	70	130				
Surr: 1,2-Dichloroethane-d4	22.890		25.00		91.6	70	130				
Surr: 4-Bromofluorobenzene	23.650		25.00		94.6	70	130				
Surr: Dibromofluoromethane	23.010		25.00		92.0	70	130				
Surr: Toluene-d8	23.810		25.00		95.2	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118581
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB6MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **ZZZZZZ** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/27/2011** SeqNo: **2198333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.860	0.50	20.00	0	79.3	70	130	18.36	14.6	20	
Benzene	35.860	0.50	40.00	0	89.7	70	130	38.59	7.33	20	
Chlorobenzene	19.410	0.50	20.00	0	97.0	70	130	20.81	6.96	20	
Toluene	37.480	0.50	40.00	0	93.7	70	130	40.84	8.58	20	
Trichloroethene	17.500	0.50	20.00	0	87.5	70	130	19.11	8.80	20	
Surr: 1,2-Dichloroethane-d4	21.140		25.00		84.6	70	130		0	0	
Surr: 4-Bromofluorobenzene	22.810		25.00		91.2	70	130		0	0	
Surr: Dibromofluoromethane	21.810		25.00		87.2	70	130		0	0	
Surr: Toluene-d8	22.740		25.00		91.0	70	130		0	0	

Sample ID: **Q110627MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **PBW** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/27/2011** SeqNo: **2198334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118581
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **PBW** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/27/2011** SeqNo: **2198334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB6** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **PBW** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/27/2011** SeqNo: **2198334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.080		25.00		92.3	70	130				
Surr: 4-Bromofluorobenzene	22.000		25.00		88.0	70	130				
Surr: Dibromofluoromethane	23.130		25.00		92.5	70	130				
Surr: Toluene-d8	21.920		25.00		87.7	70	130				

Sample ID: **118581-004AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **MS-062211** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.300	0.50	20.00	0	106	70	130				
Benzene	40.130	0.50	40.00	0	100	70	130				
Chlorobenzene	20.970	0.50	20.00	0	105	70	130				
MTBE	16.680	0.50	20.00	0	83.4	70	130				
Toluene	42.330	0.50	40.00	0	106	70	130				
Trichloroethene	20.930	0.50	20.00	0	105	70	130				
Surr: 1,2-Dichloroethane-d4	20.980		25.00		83.9	70	130				
Surr: 4-Bromofluorobenzene	22.680		25.00		90.7	70	130				
Surr: Dibromofluoromethane	21.130		25.00		84.5	70	130				
Surr: Toluene-d8	22.480		25.00		89.9	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118581
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **118581-005AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134462**
Client ID: **MSD-062211** Batch ID: **Q11VW119** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.850	0.50	20.00	0	104	70	130	21.30	2.14	20	
Benzene	38.950	0.50	40.00	0	97.4	70	130	40.13	2.98	20	
Chlorobenzene	20.220	0.50	20.00	0	101	70	130	20.97	3.64	20	
MTBE	16.200	0.50	20.00	0	81.0	70	130	16.68	2.92	20	
Toluene	41.360	0.50	40.00	0	103	70	130	42.33	2.32	20	
Trichloroethene	20.280	0.50	20.00	0	101	70	130	20.93	3.15	20	
Surr: 1,2-Dichloroethane-d4	20.370		25.00		81.5	70	130		0	0	
Surr: 4-Bromofluorobenzene	22.420		25.00		89.7	70	130		0	0	
Surr: Dibromofluoromethane	20.760		25.00		83.0	70	130		0	0	
Surr: Toluene-d8	22.320		25.00		89.3	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118581
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-73927** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/28/2011** RunNo: **134498**
Client ID: **PBW** Batch ID: **73927** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/28/2011** SeqNo: **2199091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.712		1.000		71.2	58	99				
Surr: 2-Fluorobiphenyl	0.758		1.000		75.8	60	104				
Surr: 4-Terphenyl-d14	0.819		1.000		81.9	65	127				
Surr: Nitrobenzene-d5	0.657		1.000		65.7	50	136				

Sample ID: **LCS-73927** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/28/2011** RunNo: **134498**
Client ID: **LCSW** Batch ID: **73927** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/28/2011** SeqNo: **2199092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.013	0.20	1.000	0	101	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.642		1.000		64.2	58	99				
Surr: 2-Fluorobiphenyl	0.701		1.000		70.1	60	104				
Surr: 4-Terphenyl-d14	0.831		1.000		83.1	65	127				
Surr: Nitrobenzene-d5	0.592		1.000		59.2	50	136				

Sample ID: **MB-73927MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/28/2011** RunNo: **134498**
Client ID: **ZZZZZZ** Batch ID: **73927** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/28/2011** SeqNo: **2199093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.001	0.20	1.000	0	100	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.645		1.000		64.5	58	99				
Surr: 2-Fluorobiphenyl	0.701		1.000		70.1	60	104				
Surr: 4-Terphenyl-d14	1.254		1.000		125	65	127				
Surr: Nitrobenzene-d5	0.576		1.000		57.6	50	136				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118581
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-73927MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/28/2011** RunNo: **134498**
Client ID: **ZZZZZZ** Batch ID: **73927** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **6/29/2011** SeqNo: **2199160**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.995	0.20	1.000	0	99.5	70	130	1.001	0.599	30	
Surr: 1,2-Dichlorobenzene-d4	0.593		1.000		59.2	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.653		1.000		65.3	60	104		0	0	
Surr: 4-Terphenyl-d14	1.164		1.000		116	65	127		0	0	
Surr: Nitrobenzene-d5	0.625		1.000		62.5	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 6/22/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Beam, Daniel Mora	SAMPLER (PRINTED): Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	Analyze as Matrix Spike	Analyze as Matrix Spike duplicate	LABORATORY INFORMATION / REMARKS
	TB-062211	6/22/11	800				X	X				X	2		X									
	MW-35A		1012		X			X				X	3	1	X	X	X							
	MW-35B		1120		X			X				X	3	1	X	X	X							
	MS-062211		1125		X			X				X	3		X							X		MW-35B
	MSD-062211		1130		X			X				X	3		X								X	MW-35B
	MW-35C		~~1149~~ NAB		X			X				X	3	1	X	X	X							Time 1253
	MW-33	↓	~~1421~~ 1540 AMB		X			X				X	3	1	X	X	X							

Total number of Containers per analysis: 2 0 4

Total No. of Containers: 24

Relinquished by	Date	Time	Company	Received by	Date	Time	Company
Amanda Beam	6/22/11	1635	H+A Inc	ATL	6/22/11	1635	
	6/22/11	1725		ATL	6/22/11	1725	

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold

☐ custody seals secure ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375, SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124, MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220, TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

July 07, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118631

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on June 23, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 118631

CASE NARRATIVE

Sample Receiving / General Comments

Headspace <5-6mm was noted on one voa vial of sample TB-062311.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-062311
Lab Order:	118631	**Collection Date:**	6/23/2011 7:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	118631-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 05:56 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Hargis & Associates, Inc.
Lab Order: 118631
Project: RAYTHEON MAIN, 532.30
Lab ID: 118631-001A

Client Sample ID: TB-062311
Collection Date: 6/23/2011 7:00:00 AM
Matrix: LAB H2O

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110627C	QC Batch: Q11VW120			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 05:56 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 05:56 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Trichloroethene	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 05:56 AM
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%REC	1	6/28/2011 05:56 AM
Surr: 4-Bromofluorobenzene	93.6	70-130		%REC	1	6/28/2011 05:56 AM
Surr: Dibromofluoromethane	95.5	70-130		%REC	1	6/28/2011 05:56 AM
Surr: Toluene-d8	92.3	70-130		%REC	1	6/28/2011 05:56 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	118631	**Collection Date:**	6/23/2011 7:26:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,1,2-Trichloroethane	0.83	0.50		µg/L	1	6/28/2011 11:02 AM
1,1-Dichloroethane	2.1	0.50		µg/L	1	6/28/2011 11:02 AM
1,1-Dichloroethene	180	10		µg/L	20	6/28/2011 06:58 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 11:02 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	118631	**Collection Date:**	6/23/2011 7:26:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 11:02 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 11:02 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Tetrachloroethene	0.50	0.50		µg/L	1	6/28/2011 11:02 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Trichloroethene	0.52	0.50		µg/L	1	6/28/2011 11:02 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 11:02 AM
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%REC	1	6/28/2011 11:02 AM
Surr: 1,2-Dichloroethane-d4	91.0	70-130		%REC	20	6/28/2011 06:58 AM
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	1	6/28/2011 11:02 AM
Surr: 4-Bromofluorobenzene	89.8	70-130		%REC	20	6/28/2011 06:58 AM
Surr: Dibromofluoromethane	93.2	70-130		%REC	1	6/28/2011 11:02 AM
Surr: Dibromofluoromethane	94.4	70-130		%REC	20	6/28/2011 06:58 AM
Surr: Toluene-d8	87.9	70-130		%REC	20	6/28/2011 06:58 AM
Surr: Toluene-d8	86.0	70-130		%REC	1	6/28/2011 11:02 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	118631	**Collection Date:**	6/23/2011 7:26:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630B	QC Batch: 73968			PrepDate: 6/29/2011		Analyst: **JSD**
1,4-Dioxane	59	4.0		µg/L	20	7/2/2011 01:22 AM
Surr: 1,2-Dichlorobenzene-d4	70.4	58-99		%REC	20	7/2/2011 01:22 AM
Surr: 2-Fluorobiphenyl	64.5	60-104		%REC	20	7/2/2011 01:22 AM
Surr: 4-Terphenyl-d14	90.6	65-127		%REC	20	7/2/2011 01:22 AM
Surr: Nitrobenzene-d5	67.0	50-136		%REC	20	7/2/2011 01:22 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	118631	**Collection Date:**	6/23/2011 7:39:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,1,1-Trichloroethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,1,2-Trichloroethane	12	5.0		µg/L	10	6/28/2011 11:43 AM
1,1-Dichloroethane	33	5.0		µg/L	10	6/28/2011 11:43 AM
1,1-Dichloroethene	2700	50		µg/L	100	6/28/2011 12:04 PM
1,1-Dichloropropene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2,3-Trichloropropane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2-Dibromoethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2-Dichlorobenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,2-Dichloroethane	5.0	5.0		µg/L	10	6/28/2011 11:43 AM
1,2-Dichloropropane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,3-Dichlorobenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,3-Dichloropropane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
1,4-Dichlorobenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
2,2-Dichloropropane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
2-Chlorotoluene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
4-Chlorotoluene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
4-Isopropyltoluene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Benzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Bromobenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Bromodichloromethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Bromoform	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Bromomethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Carbon tetrachloride	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Chlorobenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Chloroethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Chloroform	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Chloromethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
cis-1,2-Dichloroethene	ND	5.0		µg/L	10	6/28/2011 11:43 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	118631	**Collection Date:**	6/23/2011 7:39:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Dibromochloromethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Dibromomethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Dichlorodifluoromethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Ethylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Hexachlorobutadiene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Isopropylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
m,p-Xylene	ND	10		µg/L	10	6/28/2011 11:43 AM
Methylene chloride	ND	10		µg/L	10	6/28/2011 11:43 AM
n-Butylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
n-Propylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Naphthalene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
o-Xylene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
sec-Butylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Styrene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
tert-Butylbenzene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Tetrachloroethene	5.8	5.0		µg/L	10	6/28/2011 11:43 AM
Toluene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
trans-1,2-Dichloroethene	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Trichloroethene	24	5.0		µg/L	10	6/28/2011 11:43 AM
Trichlorofluoromethane	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Vinyl chloride	ND	5.0		µg/L	10	6/28/2011 11:43 AM
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	10	6/28/2011 11:43 AM
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%REC	100	6/28/2011 12:04 PM
Surr: 4-Bromofluorobenzene	89.3	70-130		%REC	10	6/28/2011 11:43 AM
Surr: 4-Bromofluorobenzene	87.0	70-130		%REC	100	6/28/2011 12:04 PM
Surr: Dibromofluoromethane	94.4	70-130		%REC	10	6/28/2011 11:43 AM
Surr: Dibromofluoromethane	91.7	70-130		%REC	100	6/28/2011 12:04 PM
Surr: Toluene-d8	86.0	70-130		%REC	100	6/28/2011 12:04 PM
Surr: Toluene-d8	87.4	70-130		%REC	10	6/28/2011 11:43 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	118631	**Collection Date:**	6/23/2011 7:39:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630B	QC Batch: 73968			PrepDate: 6/29/2011		Analyst: **JSD**
1,4-Dioxane	400	0.20		µg/L	1	7/5/2011 07:35 PM
Surr: 1,2-Dichlorobenzene-d4	77.6	58-99		%REC	1	7/5/2011 07:35 PM
Surr: 2-Fluorobiphenyl	72.3	60-104		%REC	1	7/5/2011 07:35 PM
Surr: 4-Terphenyl-d14	91.7	65-127		%REC	1	7/5/2011 07:35 PM
Surr: Nitrobenzene-d5	83.0	50-136		%REC	1	7/5/2011 07:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-0100
Lab Order:	118631	**Collection Date:**	6/23/2011 7:46:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,1,2-Trichloroethane	0.96	0.50		µg/L	1	6/28/2011 11:23 AM
1,1-Dichloroethane	2.0	0.50		µg/L	1	6/28/2011 11:23 AM
1,1-Dichloroethene	180	10		µg/L	20	6/28/2011 07:38 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 11:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-0100
Lab Order:	118631	**Collection Date:**	6/23/2011 7:46:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 11:23 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 11:23 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Trichloroethene	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 11:23 AM
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	6/28/2011 11:23 AM
Surr: 1,2-Dichloroethane-d4	99.6	70-130		%REC	20	6/28/2011 07:38 AM
Surr: 4-Bromofluorobenzene	87.2	70-130		%REC	1	6/28/2011 11:23 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%REC	20	6/28/2011 07:38 AM
Surr: Dibromofluoromethane	93.5	70-130		%REC	1	6/28/2011 11:23 AM
Surr: Dibromofluoromethane	97.7	70-130		%REC	20	6/28/2011 07:38 AM
Surr: Toluene-d8	90.4	70-130		%REC	20	6/28/2011 07:38 AM
Surr: Toluene-d8	87.1	70-130		%REC	1	6/28/2011 11:23 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-0100
Lab Order:	118631	**Collection Date:**	6/23/2011 7:46:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630B	QC Batch: 73968			PrepDate: 6/29/2011		Analyst: **JSD**
1,4-Dioxane	68	4.0		µg/L	20	7/2/2011 01:55 AM
Surr: 1,2-Dichlorobenzene-d4	74.2	58-99		%REC	20	7/2/2011 01:55 AM
Surr: 2-Fluorobiphenyl	70.9	60-104		%REC	20	7/2/2011 01:55 AM
Surr: 4-Terphenyl-d14	95.2	65-127		%REC	20	7/2/2011 01:55 AM
Surr: Nitrobenzene-d5	74.5	50-136		%REC	20	7/2/2011 01:55 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32A
Lab Order:	118631	**Collection Date:**	6/23/2011 9:25:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 08:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32A
Lab Order:	118631	**Collection Date:**	6/23/2011 9:25:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 08:19 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 08:19 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Trichloroethene	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 08:19 AM
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%REC	1	6/28/2011 08:19 AM
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	6/28/2011 08:19 AM
Surr: Dibromofluoromethane	99.2	70-130		%REC	1	6/28/2011 08:19 AM
Surr: Toluene-d8	92.8	70-130		%REC	1	6/28/2011 08:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32A
Lab Order:	118631	**Collection Date:**	6/23/2011 9:25:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630B	QC Batch: 73968			PrepDate: 6/29/2011		Analyst: **JSD**
1,4-Dioxane	0.57	0.20		µg/L	1	7/5/2011 08:09 PM
Surr: 1,2-Dichlorobenzene-d4	70.3	58-99		%REC	1	7/5/2011 08:09 PM
Surr: 2-Fluorobiphenyl	66.6	60-104		%REC	1	7/5/2011 08:09 PM
Surr: 4-Terphenyl-d14	95.3	65-127		%REC	1	7/5/2011 08:09 PM
Surr: Nitrobenzene-d5	75.8	50-136		%REC	1	7/5/2011 08:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32C
Lab Order:	118631	**Collection Date:**	6/23/2011 12:35:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 08:40 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32C
Lab Order:	118631	**Collection Date:**	6/23/2011 12:35:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 08:40 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 08:40 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Trichloroethene	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 08:40 AM
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%REC	1	6/28/2011 08:40 AM
Surr: 4-Bromofluorobenzene	88.5	70-130		%REC	1	6/28/2011 08:40 AM
Surr: Dibromofluoromethane	92.1	70-130		%REC	1	6/28/2011 08:40 AM
Surr: Toluene-d8	87.0	70-130		%REC	1	6/28/2011 08:40 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32C
Lab Order:	118631	**Collection Date:**	6/23/2011 12:35:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-008B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630B	QC Batch: 73968			PrepDate: 6/29/2011		Analyst: **JSD**
1,4-Dioxane	1.0	0.20		µg/L	1	7/5/2011 08:43 PM
Surr: 1,2-Dichlorobenzene-d4	79.0	58-99		%REC	1	7/5/2011 08:43 PM
Surr: 2-Fluorobiphenyl	75.0	60-104		%REC	1	7/5/2011 08:43 PM
Surr: 4-Terphenyl-d14	101	65-127		%REC	1	7/5/2011 08:43 PM
Surr: Nitrobenzene-d5	82.0	50-136		%REC	1	7/5/2011 08:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32B
Lab Order:	118631	**Collection Date:**	6/23/2011 2:02:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,1-Dichloroethene	35	0.50		µg/L	1	6/28/2011 09:00 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
cis-1,2-Dichloroethene	2.4	0.50		µg/L	1	6/28/2011 09:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32B
Lab Order:	118631	**Collection Date:**	6/23/2011 2:02:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 09:00 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 09:00 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Trichloroethene	31	0.50		µg/L	1	6/28/2011 09:00 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 09:00 AM
Surr: 1,2-Dichloroethane-d4	92.6	70-130		%REC	1	6/28/2011 09:00 AM
Surr: 4-Bromofluorobenzene	88.9	70-130		%REC	1	6/28/2011 09:00 AM
Surr: Dibromofluoromethane	91.1	70-130		%REC	1	6/28/2011 09:00 AM
Surr: Toluene-d8	82.8	70-130		%REC	1	6/28/2011 09:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32B
Lab Order:	118631	**Collection Date:**	6/23/2011 2:02:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118631-009B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630B	QC Batch: 73968			PrepDate:	6/29/2011	Analyst: **JSD**
1,4-Dioxane	1.6	0.20		µg/L	1	7/5/2011 09:17 PM
Surr: 1,2-Dichlorobenzene-d4	74.8	58-99		%REC	1	7/5/2011 09:17 PM
Surr: 2-Fluorobiphenyl	70.2	60-104		%REC	1	7/5/2011 09:17 PM
Surr: 4-Terphenyl-d14	102	65-127		%REC	1	7/5/2011 09:17 PM
Surr: Nitrobenzene-d5	78.5	50-136		%REC	1	7/5/2011 09:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 118631
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627LCS3** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **LCSW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198830**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.570	0.50	20.00	0	87.9	70	130				
Benzene	36.490	0.50	40.00	0	91.2	70	130				
Chlorobenzene	19.350	0.50	20.00	0	96.8	70	130				
MTBE	16.170	0.50	20.00	0	80.9	70	130				
Toluene	38.420	0.50	40.00	0	96.0	70	130				
Trichloroethene	18.200	0.50	20.00	0	91.0	70	130				
Surr: 1,2-Dichloroethane-d4	20.110		25.00		80.4	70	130				
Surr: 4-Bromofluorobenzene	22.780		25.00		91.1	70	130				
Surr: Dibromofluoromethane	21.090		25.00		84.4	70	130				
Surr: Toluene-d8	22.700		25.00		90.8	70	130				

Sample ID: **Q110627MB9MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **ZZZZZZ** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.140	0.50	20.00	0	85.7	70	130				
Benzene	36.420	0.50	40.00	0	91.1	70	130				
Chlorobenzene	19.200	0.50	20.00	0	96.0	70	130				
Toluene	37.970	0.50	40.00	0	94.9	70	130				
Trichloroethene	18.090	0.50	20.00	0	90.4	70	130				
Surr: 1,2-Dichloroethane-d4	19.660		25.00		78.6	70	130				
Surr: 4-Bromofluorobenzene	22.030		25.00		88.1	70	130				
Surr: Dibromofluoromethane	20.620		25.00		82.5	70	130				
Surr: Toluene-d8	22.270		25.00		89.1	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB9MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **ZZZZZZ** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.290	0.50	20.00	0	91.4	70	130	17.14	6.49	20	
Benzene	38.170	0.50	40.00	0	95.4	70	130	36.42	4.69	20	
Chlorobenzene	20.390	0.50	20.00	0	102	70	130	19.20	6.01	20	
Toluene	40.290	0.50	40.00	0	101	70	130	37.97	5.93	20	
Trichloroethene	20.340	0.50	20.00	0	102	70	130	18.09	11.7	20	
Surr: 1,2-Dichloroethane-d4	21.370		25.00		85.5	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.870		25.00		95.5	70	130		0	0	
Surr: Dibromofluoromethane	22.340		25.00		89.4	70	130		0	0	
Surr: Toluene-d8	23.810		25.00		95.2	70	130		0	0	

Sample ID: **Q110627MB9** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **PBW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118631
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB9** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **PBW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118631
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB9** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **PBW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.450		25.00		93.8	70	130				
Surr: 4-Bromofluorobenzene	23.680		25.00		94.7	70	130				
Surr: Dibromofluoromethane	24.060		25.00		96.2	70	130				
Surr: Toluene-d8	22.460		25.00		89.8	70	130				

Sample ID: **118631-006AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **MS-062311** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.130	0.50	20.00	0	111	70	130				
Benzene	39.650	0.50	40.00	0	99.1	70	130				
Chlorobenzene	20.800	0.50	20.00	0	104	70	130				
MTBE	16.940	0.50	20.00	0	84.7	70	130				
Toluene	41.650	0.50	40.00	0	104	70	130				
Trichloroethene	20.770	0.50	20.00	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	20.520		25.00		82.1	70	130				
Surr: 4-Bromofluorobenzene	22.770		25.00		91.1	70	130				
Surr: Dibromofluoromethane	20.880		25.00		83.5	70	130				
Surr: Toluene-d8	22.130		25.00		88.5	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118631
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **118631-007AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **MSD-062311** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.640	0.50	20.00	0	113	70	130	22.13	2.28	20	
Benzene	41.540	0.50	40.00	0	104	70	130	39.65	4.66	20	
Chlorobenzene	21.440	0.50	20.00	0	107	70	130	20.80	3.03	20	
MTBE	17.790	0.50	20.00	0	89.0	70	130	16.94	4.89	20	
Toluene	43.700	0.50	40.00	0	109	70	130	41.65	4.80	20	
Trichloroethene	21.860	0.50	20.00	0	109	70	130	20.77	5.11	20	
Surr: 1,2-Dichloroethane-d4	19.950		25.00		79.8	70	130		0	0	
Surr: 4-Bromofluorobenzene	22.920		25.00		91.7	70	130		0	0	
Surr: Dibromofluoromethane	20.730		25.00		82.9	70	130		0	0	
Surr: Toluene-d8	22.340		25.00		89.4	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118631
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-73968MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/29/2011** RunNo: **134649**
Client ID: **ZZZZZZ** Batch ID: **73968** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/30/2011** SeqNo: **2202120**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.897	0.20	1.000	0	89.7	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.730		1.000		73.0	58	99				
Surr: 2-Fluorobiphenyl	0.819		1.000		81.9	60	104				
Surr: 4-Terphenyl-d14	1.910		2.000		95.5	65	127				
Surr: Nitrobenzene-d5	0.634		1.000		63.4	50	136				

Sample ID: **MB-73968MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/29/2011** RunNo: **134649**
Client ID: **ZZZZZZ** Batch ID: **73968** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/30/2011** SeqNo: **2202121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.007	0.20	1.000	0	101	70	130	0.8968	11.6	30	
Surr: 1,2-Dichlorobenzene-d4	0.760		1.000		76.0	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.851		1.000		85.1	60	104		0	0	
Surr: 4-Terphenyl-d14	1.809		2.000		90.4	65	127		0	0	
Surr: Nitrobenzene-d5	0.666		1.000		66.6	50	136		0	0	

Sample ID: **MB-73968** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/29/2011** RunNo: **134649**
Client ID: **PBW** Batch ID: **73968** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **7/5/2011** SeqNo: **2203011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.767		1.000		76.7	58	99				
Surr: 2-Fluorobiphenyl	0.728		1.000		72.8	60	104				
Surr: 4-Terphenyl-d14	1.081		1.000		108	65	127				
Surr: Nitrobenzene-d5	0.804		1.000		80.4	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118631
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **LCS-73968** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/29/2011** RunNo: **134649**
Client ID: **LCSW** Batch ID: **73968** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **7/5/2011** SeqNo: **2203012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.989	0.20	1.000	0	98.9	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.813		1.000		81.2	58	99				
Surr: 2-Fluorobiphenyl	0.788		1.000		78.8	60	104				
Surr: 4-Terphenyl-d14	2.038		2.000		102	65	127				
Surr: Nitrobenzene-d5	0.878		1.000		87.8	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 6/23/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Beam, Daniel Mora	SAMPLER (PRINTED): Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground water	Surface water	Lab H2O	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	Analyze as Matrix Spike	Analyze as Matrix Spike duplicate	LABORATORY INFORMATION / REMARKS
	TB-062311	6/23/11	700				X	X				X	2		X		X							
	EW-01		726		X			X				X	3	1	X	X			X					
	MW-21		739		X			X				X	3	1	X	X				X				
	EW-0100		746		X			X				X	3	1	X	X			X					
	MW-32A		925		X			X				X	3	1	X	X	X							
	MS-062311		930		X			X				X	3 + TAB		X							X		MW-32A
	MSD-062311		935		X			X				X	3		X								X	MW-32A
	MW-32C		1235		X			X				X	3	1	X	X	X							
	MW-32B	↓	1402		X			X				X	3	1	X	X		X						

Total number of Containers per analysis: 2 6 6

Total No. of Containers: _____

Relinquished by:	Date	Time	Received by:	Date	Time
HTA	6/23/11	1530	HTL	6/23/11	1530
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
HTL	6/23/11	1806	FEDEX	6/23/11	1805
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt: 1.9°-

- ☐ No. of containers correct
- ☑ received good condition/cold
- ☐ custody seals secure
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0886

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

July 05, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122

TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118643

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on June 24, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 118643

CASE NARRATIVE

Sample Receiving / General Comments

Headspace <5-6mm was noted on voa vials of samples TB-062411 (2 vials) and MW-26C (2 vials).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc.
Lab Order: 118643
Project: RAYTHEON MAIN, 532.30
Lab ID: 118643-001A

Client Sample ID: TB-062411
Collection Date: 6/24/2011 7:00:00 AM
Matrix: LAB H2O

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 06:17 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Hargis & Associates, Inc.
Lab Order: 118643
Project: RAYTHEON MAIN, 532.30
Lab ID: 118643-001A

Client Sample ID: TB-062411
Collection Date: 6/24/2011 7:00:00 AM
Matrix: LAB H2O

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110627C	QC Batch: Q11VW120			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 06:17 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 06:17 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Trichloroethene	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 06:17 AM
Surr: 1,2-Dichloroethane-d4	90.8	70-130		%REC	1	6/28/2011 06:17 AM
Surr: 4-Bromofluorobenzene	90.0	70-130		%REC	1	6/28/2011 06:17 AM
Surr: Dibromofluoromethane	91.2	70-130		%REC	1	6/28/2011 06:17 AM
Surr: Toluene-d8	86.4	70-130		%REC	1	6/28/2011 06:17 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-31
Lab Order:	118643	**Collection Date:**	6/24/2011 8:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,1-Dichloroethene	61	0.50		µg/L	1	6/28/2011 06:37 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 06:37 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-31
Lab Order:	118643	**Collection Date:**	6/24/2011 8:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 06:37 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 06:37 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Toluene	0.83	0.50		µg/L	1	6/28/2011 06:37 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Trichloroethene	5.1	0.50		µg/L	1	6/28/2011 06:37 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 06:37 AM
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%REC	1	6/28/2011 06:37 AM
Surr: 4-Bromofluorobenzene	92.4	70-130		%REC	1	6/28/2011 06:37 AM
Surr: Dibromofluoromethane	96.7	70-130		%REC	1	6/28/2011 06:37 AM
Surr: Toluene-d8	89.3	70-130		%REC	1	6/28/2011 06:37 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-31
Lab Order:	118643	**Collection Date:**	6/24/2011 8:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630A	QC Batch: 73996			PrepDate: 6/30/2011		Analyst: **JSD**
1,4-Dioxane	0.51	0.20		µg/L	1	7/1/2011 06:25 AM
Surr: 1,2-Dichlorobenzene-d4	63.4	58-99		%REC	1	7/1/2011 06:25 AM
Surr: 2-Fluorobiphenyl	71.2	60-104		%REC	1	7/1/2011 06:25 AM
Surr: 4-Terphenyl-d14	93.3	65-127		%REC	1	7/1/2011 06:25 AM
Surr: Nitrobenzene-d5	67.9	50-136		%REC	1	7/1/2011 06:25 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	118643	**Collection Date:**	6/24/2011 10:16:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Benzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Chloroform	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 09:20 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	118643	**Collection Date:**	6/24/2011 10:16:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 09:20 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 09:20 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Toluene	7.9	0.50		µg/L	1	6/28/2011 09:20 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Trichloroethene	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 09:20 AM
Surr: 1,2-Dichloroethane-d4	88.0	70-130		%REC	1	6/28/2011 09:20 AM
Surr: 4-Bromofluorobenzene	87.6	70-130		%REC	1	6/28/2011 09:20 AM
Surr: Dibromofluoromethane	91.6	70-130		%REC	1	6/28/2011 09:20 AM
Surr: Toluene-d8	86.8	70-130		%REC	1	6/28/2011 09:20 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	118643	**Collection Date:**	6/24/2011 10:16:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630A	QC Batch: 73996			PrepDate: 6/30/2011		Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	7/1/2011 06:56 AM
Surr: 1,2-Dichlorobenzene-d4	72.2	58-99		%REC	1	7/1/2011 06:56 AM
Surr: 2-Fluorobiphenyl	82.7	60-104		%REC	1	7/1/2011 06:56 AM
Surr: 4-Terphenyl-d14	101	65-127		%REC	1	7/1/2011 06:56 AM
Surr: Nitrobenzene-d5	76.2	50-136		%REC	1	7/1/2011 06:56 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-08
Lab Order:	118643	**Collection Date:**	6/24/2011 12:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,1-Dichloroethene	67	0.50		µg/L	1	6/28/2011 09:41 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Benzene	0.57	0.50		µg/L	1	6/28/2011 09:41 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Chloroform	0.65	0.50		µg/L	1	6/28/2011 09:41 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
cis-1,2-Dichloroethene	9.4	0.50		µg/L	1	6/28/2011 09:41 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-08
Lab Order:	118643	**Collection Date:**	6/24/2011 12:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 09:41 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 09:41 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Trichloroethene	210	5.0		µg/L	10	6/28/2011 10:01 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 09:41 AM
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%REC	1	6/28/2011 09:41 AM
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%REC	10	6/28/2011 10:01 AM
Surr: 4-Bromofluorobenzene	89.9	70-130		%REC	1	6/28/2011 09:41 AM
Surr: 4-Bromofluorobenzene	87.9	70-130		%REC	10	6/28/2011 10:01 AM
Surr: Dibromofluoromethane	91.7	70-130		%REC	1	6/28/2011 09:41 AM
Surr: Dibromofluoromethane	93.8	70-130		%REC	10	6/28/2011 10:01 AM
Surr: Toluene-d8	82.8	70-130		%REC	10	6/28/2011 10:01 AM
Surr: Toluene-d8	82.4	70-130		%REC	1	6/28/2011 09:41 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-08
Lab Order:	118643	**Collection Date:**	6/24/2011 12:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630A	QC Batch: 73996			PrepDate: 6/30/2011		Analyst: **JSD**
1,4-Dioxane	0.75	0.20		µg/L	1	7/2/2011 12:18 AM
Surr: 1,2-Dichlorobenzene-d4	71.8	58-99		%REC	1	7/2/2011 12:18 AM
Surr: 2-Fluorobiphenyl	71.3	60-104		%REC	1	7/2/2011 12:18 AM
Surr: 4-Terphenyl-d14	105	65-127		%REC	1	7/2/2011 12:18 AM
Surr: Nitrobenzene-d5	80.3	50-136		%REC	1	7/2/2011 12:18 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-0800
Lab Order:	118643	**Collection Date:**	6/24/2011 12:30:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,1-Dichloroethene	68	0.50		µg/L	1	6/28/2011 10:21 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Benzene	0.56	0.50		µg/L	1	6/28/2011 10:21 AM
Bromobenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Bromoform	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Bromomethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Chlorobenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Chloroethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Chloroform	0.67	0.50		µg/L	1	6/28/2011 10:21 AM
Chloromethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
cis-1,2-Dichloroethene	9.0	0.50		µg/L	1	6/28/2011 10:21 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-0800
Lab Order:	118643	**Collection Date:**	6/24/2011 12:30:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110627C QC Batch: Q11VW120 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Dibromomethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Ethylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
m,p-Xylene	ND	1.0		µg/L	1	6/28/2011 10:21 AM
Methylene chloride	ND	1.0		µg/L	1	6/28/2011 10:21 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Naphthalene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
o-Xylene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Styrene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Toluene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Trichloroethene	220	5.0		µg/L	10	6/28/2011 10:42 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Vinyl chloride	ND	0.50		µg/L	1	6/28/2011 10:21 AM
Surr: 1,2-Dichloroethane-d4	89.8	70-130		%REC	1	6/28/2011 10:21 AM
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%REC	10	6/28/2011 10:42 AM
Surr: 4-Bromofluorobenzene	83.2	70-130		%REC	1	6/28/2011 10:21 AM
Surr: 4-Bromofluorobenzene	87.4	70-130		%REC	10	6/28/2011 10:42 AM
Surr: Dibromofluoromethane	90.8	70-130		%REC	1	6/28/2011 10:21 AM
Surr: Dibromofluoromethane	94.6	70-130		%REC	10	6/28/2011 10:42 AM
Surr: Toluene-d8	84.5	70-130		%REC	10	6/28/2011 10:42 AM
Surr: Toluene-d8	80.6	70-130		%REC	1	6/28/2011 10:21 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-0800
Lab Order:	118643	**Collection Date:**	6/24/2011 12:30:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	118643-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110630A	QC Batch: 73996			PrepDate: 6/30/2011		Analyst: **JSD**
1,4-Dioxane	0.59	0.20		µg/L	1	7/1/2011 07:56 AM
Surr: 1,2-Dichlorobenzene-d4	77.3	58-99		%REC	1	7/1/2011 07:56 AM
Surr: 2-Fluorobiphenyl	88.1	60-104		%REC	1	7/1/2011 07:56 AM
Surr: 4-Terphenyl-d14	92.5	65-127		%REC	1	7/1/2011 07:56 AM
Surr: Nitrobenzene-d5	82.0	50-136		%REC	1	7/1/2011 07:56 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 118643
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627LCS3** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **LCSW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198830**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.570	0.50	20.00	0	87.9	70	130				
Benzene	36.490	0.50	40.00	0	91.2	70	130				
Chlorobenzene	19.350	0.50	20.00	0	96.8	70	130				
MTBE	16.170	0.50	20.00	0	80.9	70	130				
Toluene	38.420	0.50	40.00	0	96.0	70	130				
Trichloroethene	18.200	0.50	20.00	0	91.0	70	130				
Surr: 1,2-Dichloroethane-d4	20.110		25.00		80.4	70	130				
Surr: 4-Bromofluorobenzene	22.780		25.00		91.1	70	130				
Surr: Dibromofluoromethane	21.090		25.00		84.4	70	130				
Surr: Toluene-d8	22.700		25.00		90.8	70	130				

Sample ID: **Q110627MB9MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **ZZZZZZ** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.140	0.50	20.00	0	85.7	70	130				
Benzene	36.420	0.50	40.00	0	91.1	70	130				
Chlorobenzene	19.200	0.50	20.00	0	96.0	70	130				
Toluene	37.970	0.50	40.00	0	94.9	70	130				
Trichloroethene	18.090	0.50	20.00	0	90.4	70	130				
Surr: 1,2-Dichloroethane-d4	19.660		25.00		78.6	70	130				
Surr: 4-Bromofluorobenzene	22.030		25.00		88.1	70	130				
Surr: Dibromofluoromethane	20.620		25.00		82.5	70	130				
Surr: Toluene-d8	22.270		25.00		89.1	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118643
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB9MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **ZZZZZZ** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198832**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.290	0.50	20.00	0	91.4	70	130	17.14	6.49	20	
Benzene	38.170	0.50	40.00	0	95.4	70	130	36.42	4.69	20	
Chlorobenzene	20.390	0.50	20.00	0	102	70	130	19.20	6.01	20	
Toluene	40.290	0.50	40.00	0	101	70	130	37.97	5.93	20	
Trichloroethene	20.340	0.50	20.00	0	102	70	130	18.09	11.7	20	
Surr: 1,2-Dichloroethane-d4	21.370		25.00		85.5	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.870		25.00		95.5	70	130		0	0	
Surr: Dibromofluoromethane	22.340		25.00		89.4	70	130		0	0	
Surr: Toluene-d8	23.810		25.00		95.2	70	130		0	0	

Sample ID: **Q110627MB9** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **PBW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118643
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB9** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **PBW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118643
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110627MB9** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **PBW** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198833**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.450		25.00		93.8	70	130				
Surr: 4-Bromofluorobenzene	23.680		25.00		94.7	70	130				
Surr: Dibromofluoromethane	24.060		25.00		96.2	70	130				
Surr: Toluene-d8	22.460		25.00		89.8	70	130				

Sample ID: **118631-006AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **ZZZZZZ** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.130	0.50	20.00	0	111	70	130				
Benzene	39.650	0.50	40.00	0	99.1	70	130				
Chlorobenzene	20.800	0.50	20.00	0	104	70	130				
Toluene	41.650	0.50	40.00	0	104	70	130				
Trichloroethene	20.770	0.50	20.00	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	20.520		25.00		82.1	70	130				
Surr: 4-Bromofluorobenzene	22.770		25.00		91.1	70	130				
Surr: Dibromofluoromethane	20.880		25.00		83.5	70	130				
Surr: Toluene-d8	22.130		25.00		88.5	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118643
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **118631-007AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134492**
Client ID: **ZZZZZZ** Batch ID: **Q11VW120** TestNo: **EPA 8260B** Analysis Date: **6/28/2011** SeqNo: **2198853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.640	0.50	20.00	0	113	70	130	22.13	2.28	20	
Benzene	41.540	0.50	40.00	0	104	70	130	39.65	4.66	20	
Chlorobenzene	21.440	0.50	20.00	0	107	70	130	20.80	3.03	20	
Toluene	43.700	0.50	40.00	0	109	70	130	41.65	4.80	20	
Trichloroethene	21.860	0.50	20.00	0	109	70	130	20.77	5.11	20	
Surr: 1,2-Dichloroethane-d4	19.950		25.00		79.8	70	130		0	0	
Surr: 4-Bromofluorobenzene	22.920		25.00		91.7	70	130		0	0	
Surr: Dibromofluoromethane	20.730		25.00		82.9	70	130		0	0	
Surr: Toluene-d8	22.340		25.00		89.4	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118643
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **LCS-73996**	SampType: **LCS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **6/30/2011**	RunNo: **134602**
Client ID: **LCSW**	Batch ID: **73996**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **7/1/2011**	SeqNo: **2201366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.922	0.20	1.000	0	92.2	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.691		1.000		69.1	58	99				
Surr: 2-Fluorobiphenyl	0.781		1.000		78.1	60	104				
Surr: 4-Terphenyl-d14	1.861		2.000		93.1	65	127				
Surr: Nitrobenzene-d5	0.670		1.000		67.0	50	136				

Sample ID: **MB-73996**	SampType: **MBLK**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **6/30/2011**	RunNo: **134602**
Client ID: **PBW**	Batch ID: **73996**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **7/1/2011**	SeqNo: **2201966**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.678		1.000		67.8	58	99				
Surr: 2-Fluorobiphenyl	0.663		1.000		66.3	60	104				
Surr: 4-Terphenyl-d14	1.020		1.000		102	65	127				
Surr: Nitrobenzene-d5	0.764		1.000		76.4	50	136				

Sample ID: **MB-73996MS**	SampType: **MS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **6/30/2011**	RunNo: **134602**
Client ID: **ZZZZZZ**	Batch ID: **73996**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **7/1/2011**	SeqNo: **2201967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.032	0.20	1.000	0	103	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.683		1.000		68.3	58	99				
Surr: 2-Fluorobiphenyl	0.653		1.000		65.3	60	104				
Surr: 4-Terphenyl-d14	1.821		2.000		91.0	65	127				
Surr: Nitrobenzene-d5	0.771		1.000		77.1	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118643
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-73996MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/30/2011** RunNo: **134602**
Client ID: **ZZZZZZ** Batch ID: **73996** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **7/1/2011** SeqNo: **2201968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.896	0.20	1.000	0	89.6	70	130	1.032	14.1	30	
Surr: 1,2-Dichlorobenzene-d4	0.732		1.000		73.2	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.700		1.000		70.0	60	104		0	0	
Surr: 4-Terphenyl-d14	2.036		2.000		102	65	127		0	0	
Surr: Nitrobenzene-d5	0.816		1.000		81.6	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 6/24/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Beam, Daniel Mora	SAMPLER (PRINTED): Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT
	TB-062411	6/24/11	700				X	X				X	2		X		X				
	MW-31		812		X			X				X	3	1	X	X		X			
	MW-26C		1106		X			X				X	3	1	X	X	X				
	MW-08		1200		X			X				X	3	1	X	X			X		
	MW-0800		1230		X			X				X	3	1	X	X			X		
Total number of Containers per analysis:													14	4							Total No. of Containers: 18

LABORATORY INFORMATION: ATL; Attn: Rachelle Arada

REMARKS

Relinquished by:	Date	Time	Received by:	Date	Time
	6/24/11	1305			
H+A (Company)			(Company)		
Relinquished by:	Date	Time	Received by:	Date	Time
			PPDiva	6/24/11	
(Company)			ATL (Company)		1305

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☑ received good condition/cold (2.5°C)
- ☐ custody seals secure
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375, SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124, MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220, TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
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E: info400@exova.com
W: www.exova.com

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July 11, 2011

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No:	132144
Purchase Order:	532.30
Project Name:	Raytheon Main
Samples Received:	Eleven (11) Samples
Date Received:	06/23/2011

KC

Analysis	Page
Volatile Organics by EPA 624/8260B	2 - 8
1,4-Dioxane by Modified EPA 8270	9

Samina N. Hussain
Senior Chemist

Patricia Metzger
Senior Chemist

This report is to be reproduced in its entirety. All documents and data will be destroyed 7 years past invoice.
All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-21

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	2	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	27	1	ND	1
1,2-Dichloroethane	4	1	ND	1
1,1-Dichloroethylene	2300	1	ND	1
cis-1,2-Dichloroethylene	1	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	2	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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Exova

Volatile Organics by EPA 624/8260B

Sample: MW-21 (continued)

		Parts Per Billion (µg/L)		
		Detection	Blank	Detection
Compound	Result	Limit	Result	Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	5	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	10	1	ND	1
Trichloroethylene	20	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 06-28-11
Date analyzed: 06-28-11

		Sample	Blank
Surrogate	QC Limits	Percent Recovery	Percent Recovery
Dibromofluoromethane	75-125	97	102
1,2-Dichloroethane-d_4	82-121	105	107
Toluene-d_8	87-110	98	103
Bromofluorobenzene	76-113	112	105

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-34B

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	10	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-34B (continued)

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	2	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 06-28-11
Date analyzed: 06-28-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	99	102
1,2-Dichloroethane-d_4	82-121	108	107
Toluene-d_8	87-110	99	103
Bromofluorobenzene	76-113	108	105

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-062111A

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	ND	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-062111A (continued)

		Parts Per Billion (µg/L)		
Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 06-28-11
Date analyzed: 06-28-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	98	102
1,2-Dichloroethane-d_4	82-121	105	107
Toluene-d_8	87-110	104	103
Bromofluorobenzene	76-113	104	105

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EXOVA

Quality Control Summary

Sample ID: MW-34B

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Benzene	ND	50.0	51.5	103	52.0	104	1
Chlorobenzene	ND	50.0	52.0	104	53.2	106	2
1,1-Dichloroethylene	10.1	50.0	63.8	107	62.8	105	2
Toluene	1.6	50.0	54.4	106	53.4	104	2
Trichloroethylene	ND	50.0	49.2	98	50.3	101	2

Quality Control Limits

Compound	% Recovery	RPD
Benzene	77-127	10
Chlorobenzene	80-116	9
1,1-Dichloroethylene	66-125	11
Toluene	81-118	10
Trichloroethylene	72-119	11

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EXOVA

1,4-Dioxane by Modified EPA 8270
Gas Chromatography/Mass Spectrometry

Sample ID	Parts per Billion (µg/L)
MW-21	450
MW-34B	11
Method Blank	ND
Detection Limit	1

Date Extracted: 06-28-11
Date Analyzed: 07-02-11

Quality Control Summary

Sample ID: 062811WB

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
1,4-Dioxane	ND	20.0	19.5	98	21.4	107	9

Quality Control Guidelines

Analyte	% Recovery	RPD
1,4-Dioxane	85 - 113	NMT 11

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HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 6/23/11 PAGE 1 OF 1

PROJECT NAME	RAYTHEON MAIN
PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross
Phone No.	858-455-6500
QA MANAGER	Steve Netto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	Amanda Blam
SAMPLER (PRINTED)	Amanda Blam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml VOA	1 L Amber	ANALYSIS REQUESTED 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000 1,000-10,000	SPECIAL HANDLING Standard TAT
NNN	TB-062111A	6/21/11	800				X	X				X	3		X		X				
NNN	MW-34B	6/21/11	1436		X			X				X	3	1	X	X		X			
NNN	MW-21	6/23/11	745		X			X				X	3	1	X	X				X	
Total number of Containers per analysis:													9	2							**Total No. of Containers** 11

LABORATORY INFORMATION: Exova

REMARKS

Relinquished by:	Date	Received by:	Date
Amanda Blam	6/23/11	[illegible]	6/23
H.A, Inc	Time 1535	Exova	Time 1535
Company		Company	
Relinquished by:	Date	Received by:	Date
	Time		Time
Company		Company	

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☑ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☑ conforms to COC document

Shipment Method: Courier/drop off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

132144

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

GROUNDWATER EXTRACTION AND TREATMENT ANALYTICAL RESULTS

April 11, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117175

RE: RAYTHEON FULLERTON, 532.15

Attention: Steve Netto

Enclosed are the results for sample(s) received on April 01, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON FULLERTON, 532.15
Lab Order: 117175

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** TB-040111
Lab Order: 117175 **Collection Date:** 4/1/2011 9:00:00 AM
Project: RAYTHEON FULLERTON, 532.15 **Matrix:** LAB H2O
Lab ID: 117175-001A

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
2-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
4-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Benzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Bromobenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Bromodichloromethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Bromoform	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Bromomethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Carbon tetrachloride	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Chlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Chloroethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Chloroform	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Chloromethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-040111
Lab Order:	117175	**Collection Date:**	4/1/2011 9:00:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	LAB H2O
Lab ID:	117175-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Dibromochloromethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Dibromomethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Ethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Isopropylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
m,p-Xylene	ND	1.0		µg/L	1	4/4/2011 11:19 AM
Methylene chloride	ND	1.0		µg/L	1	4/4/2011 11:19 AM
n-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
n-Propylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Naphthalene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
o-Xylene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
sec-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Styrene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
tert-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Tetrachloroethene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Toluene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Trichloroethene	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Vinyl chloride	ND	0.50		µg/L	1	4/4/2011 11:19 AM
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%REC	1	4/4/2011 11:19 AM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	4/4/2011 11:19 AM
Surr: Dibromofluoromethane	94.7	70-130		%REC	1	4/4/2011 11:19 AM
Surr: Toluene-d8	101	70-130		%REC	1	4/4/2011 11:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117175	**Collection Date:**	4/1/2011 11:10:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,1-Dichloroethane	0.76	0.50		µg/L	1	4/4/2011 12:39 PM
1,1-Dichloroethene	82	0.50		µg/L	1	4/4/2011 12:39 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Benzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Bromobenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Bromodichloromethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Bromoform	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Bromomethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Carbon tetrachloride	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Chlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Chloroethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Chloroform	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Chloromethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 12:39 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117175	**Collection Date:**	4/1/2011 11:10:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Dibromochloromethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Dibromomethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Ethylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Isopropylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
m,p-Xylene	ND	1.0		µg/L	1	4/4/2011 12:39 PM
Methylene chloride	ND	1.0		µg/L	1	4/4/2011 12:39 PM
n-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
n-Propylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Naphthalene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
o-Xylene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
sec-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Styrene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
tert-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Tetrachloroethene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Toluene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Trichloroethene	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Vinyl chloride	ND	0.50		µg/L	1	4/4/2011 12:39 PM
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	1	4/4/2011 12:39 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	4/4/2011 12:39 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	4/4/2011 12:39 PM
Surr: Toluene-d8	101	70-130		%REC	1	4/4/2011 12:39 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117175	**Collection Date:**	4/1/2011 11:10:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110405A	QC Batch: 71999			PrepDate:	4/4/2011	Analyst: **JSD**
1,4-Dioxane	16	2.0		µg/L	10	4/6/2011 12:18 PM
Surr: 1,2-Dichlorobenzene-d4	81.7	58-99		%REC	10	4/6/2011 12:18 PM
Surr: 2-Fluorobiphenyl	80.7	60-104		%REC	10	4/6/2011 12:18 PM
Surr: 4-Terphenyl-d14	77.7	65-127		%REC	10	4/6/2011 12:18 PM
Surr: Nitrobenzene-d5	85.8	50-136		%REC	10	4/6/2011 12:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117175	**Collection Date:**	4/1/2011 11:10:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110404D	QC Batch: 72058			PrepDate: 4/4/2011		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	650	10		mg/L	1	4/4/2011 08:15 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117175	**Collection Date:**	4/1/2011 11:10:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110406E	QC Batch: 72059			PrepDate:	4/6/2011	Analyst: **CBB**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	4/6/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117175	**Collection Date:**	4/1/2011 11:10:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110404A	QC Batch: R131692			PrepDate:		Analyst: **PT**
Bromide	0.16	0.050		mg/L	1	4/4/2011 11:52 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	117175	**Collection Date:**	4/1/2011 10:05:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110406E	QC Batch: 72059			PrepDate:	4/6/2011	Analyst: **CBB**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	4/6/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117175	**Collection Date:**	4/1/2011 10:12:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,1-Dichloroethane	0.53	0.50		µg/L	1	4/4/2011 12:19 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Benzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Bromobenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Bromodichloromethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Bromoform	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Bromomethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Carbon tetrachloride	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Chlorobenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Chloroethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Chloroform	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Chloromethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 12:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117175	**Collection Date:**	4/1/2011 10:12:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS11_110404A	QC Batch: A11VW055			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Dibromochloromethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Dibromomethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Ethylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Isopropylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
m,p-Xylene	ND	1.0		µg/L	1	4/4/2011 12:19 PM
Methylene chloride	ND	1.0		µg/L	1	4/4/2011 12:19 PM
n-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
n-Propylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Naphthalene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
o-Xylene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
sec-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Styrene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
tert-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Tetrachloroethene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Toluene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Trichloroethene	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Vinyl chloride	ND	0.50		µg/L	1	4/4/2011 12:19 PM
Surr: 1,2-Dichloroethane-d4	91.0	70-130		%REC	1	4/4/2011 12:19 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	4/4/2011 12:19 PM
Surr: Dibromofluoromethane	98.5	70-130		%REC	1	4/4/2011 12:19 PM
Surr: Toluene-d8	101	70-130		%REC	1	4/4/2011 12:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117175	**Collection Date:**	4/1/2011 10:12:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110405A	QC Batch: 71999			PrepDate:	4/4/2011	Analyst: **JSD**
1,4-Dioxane	0.36	0.20		µg/L	1	4/5/2011 11:23 PM
Surr: 1,2-Dichlorobenzene-d4	86.6	58-99		%REC	1	4/5/2011 11:23 PM
Surr: 2-Fluorobiphenyl	89.2	60-104		%REC	1	4/5/2011 11:23 PM
Surr: 4-Terphenyl-d14	85.2	65-127		%REC	1	4/5/2011 11:23 PM
Surr: Nitrobenzene-d5	106	50-136		%REC	1	4/5/2011 11:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117175	**Collection Date:**	4/1/2011 10:12:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110404D	QC Batch: 72058			PrepDate: 4/4/2011		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	650	10		mg/L	1	4/4/2011 08:15 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117175	**Collection Date:**	4/1/2011 10:12:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110404A	QC Batch: R131692			PrepDate:		Analyst: **PT**
Bromide	0.15	0.050		mg/L	1	4/4/2011 12:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	117175	**Collection Date:**	4/1/2011 10:23:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,1-Dichloroethane	0.69	0.50		µg/L	1	4/4/2011 11:59 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
2-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
4-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Benzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Bromobenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Bromodichloromethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Bromoform	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Bromomethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Carbon tetrachloride	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Chlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Chloroethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Chloroform	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Chloromethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:59 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	117175	**Collection Date:**	4/1/2011 10:23:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS11_110404A	QC Batch: A11VW055			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Dibromochloromethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Dibromomethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Ethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Isopropylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
m,p-Xylene	ND	1.0		µg/L	1	4/4/2011 11:59 AM
Methylene chloride	ND	1.0		µg/L	1	4/4/2011 11:59 AM
n-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
n-Propylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Naphthalene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
o-Xylene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
sec-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Styrene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
tert-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Tetrachloroethene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Toluene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Trichloroethene	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Vinyl chloride	ND	0.50		µg/L	1	4/4/2011 11:59 AM
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%REC	1	4/4/2011 11:59 AM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	4/4/2011 11:59 AM
Surr: Dibromofluoromethane	97.8	70-130		%REC	1	4/4/2011 11:59 AM
Surr: Toluene-d8	100	70-130		%REC	1	4/4/2011 11:59 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117175	**Collection Date:**	4/1/2011 10:30:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,1-Dichloroethane	0.82	0.50		µg/L	1	4/4/2011 11:39 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
2-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
4-Chlorotoluene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Benzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Bromobenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Bromodichloromethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Bromoform	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Bromomethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Carbon tetrachloride	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Chlorobenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Chloroethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Chloroform	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Chloromethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:39 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117175	**Collection Date:**	4/1/2011 10:30:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110404A QC Batch: A11VW055 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Dibromochloromethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Dibromomethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Ethylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Isopropylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
m,p-Xylene	ND	1.0		µg/L	1	4/4/2011 11:39 AM
Methylene chloride	ND	1.0		µg/L	1	4/4/2011 11:39 AM
n-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
n-Propylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Naphthalene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
o-Xylene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
sec-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Styrene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
tert-Butylbenzene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Tetrachloroethene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Toluene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Trichloroethene	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Vinyl chloride	ND	0.50		µg/L	1	4/4/2011 11:39 AM
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%REC	1	4/4/2011 11:39 AM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	4/4/2011 11:39 AM
Surr: Dibromofluoromethane	96.4	70-130		%REC	1	4/4/2011 11:39 AM
Surr: Toluene-d8	101	70-130		%REC	1	4/4/2011 11:39 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117175	**Collection Date:**	4/1/2011 10:30:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110404D	QC Batch: 72058			PrepDate: 4/4/2011		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	640	10		mg/L	1	4/4/2011 08:15 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117175	**Collection Date:**	4/1/2011 10:30:00 AM
Project:	RAYTHEON FULLERTON, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117175-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110404A	QC Batch: R131692			PrepDate:		Analyst: **PT**
Bromide	0.16	0.050		mg/L	1	4/4/2011 12:15 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **117175-006B-DUP**	SampType: **DUP**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **4/4/2011**	RunNo: **131793**
Client ID: **CEFF**	Batch ID: **72058**	TestNo: **SM2540C**		Analysis Date: **4/4/2011**	SeqNo: **2146026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	644.000	10						645.0	0.155	10	

Sample ID: **LCS-72058**	SampType: **LCS**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **4/4/2011**	RunNo: **131793**
Client ID: **LCSW**	Batch ID: **72058**	TestNo: **SM2540C**		Analysis Date: **4/4/2011**	SeqNo: **2146027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	1007.000	10	970.0	5.000	103	80	120				

Sample ID: **MB-72058**	SampType: **MBLK**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **4/4/2011**	RunNo: **131793**
Client ID: **PBW**	Batch ID: **72058**	TestNo: **SM2540C**		Analysis Date: **4/4/2011**	SeqNo: **2146028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	5.000	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **117202-002A-DUP**	SampType: **DUP**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **4/6/2011**	RunNo: **131816**
Client ID: **ZZZZZZ**	Batch ID: **72059**	TestNo: **SM2540D**		Analysis Date: **4/6/2011**	SeqNo: **2146330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-72059**	SampType: **LCS**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **4/6/2011**	RunNo: **131816**
Client ID: **LCSW**	Batch ID: **72059**	TestNo: **SM2540D**		Analysis Date: **4/6/2011**	SeqNo: **2146332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	96.000	10	96.60	0	99.4	80	120				

Sample ID: **MB-72059**	SampType: **MBLK**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **4/6/2011**	RunNo: **131816**
Client ID: **PBW**	Batch ID: **72059**	TestNo: **SM2540D**		Analysis Date: **4/6/2011**	SeqNo: **2146333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R131692**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **131692**
Client ID: **PBW**	Batch ID: **R131692**	TestNo: **EPA 300.0**		Analysis Date: **4/4/2011**	SeqNo: **2144215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R131692**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **131692**
Client ID: **LCSW**	Batch ID: **R131692**	TestNo: **EPA 300.0**		Analysis Date: **4/4/2011**	SeqNo: **2144216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.922	0.050	1.000	0	92.2	90	110				

Sample ID: **117174-001A-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **131692**
Client ID: **ZZZZZZ**	Batch ID: **R131692**	TestNo: **EPA 300.0**		Analysis Date: **4/4/2011**	SeqNo: **2144218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050						0	0	20	

Sample ID: **117174-001A-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **131692**
Client ID: **ZZZZZZ**	Batch ID: **R131692**	TestNo: **EPA 300.0**		Analysis Date: **4/4/2011**	SeqNo: **2144219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.589	0.050	2.500	0	104	80	120				

Sample ID: **117174-001A-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **131692**
Client ID: **ZZZZZZ**	Batch ID: **R131692**	TestNo: **EPA 300.0**		Analysis Date: **4/4/2011**	SeqNo: **2144220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.587	0.050	2.500	0	103	80	120	2.589	0.0773	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110404LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **131767**
Client ID: **LCSW** Batch ID: **A11VW055** TestNo: **EPA 8260B** Analysis Date: **4/4/2011** SeqNo: **2145680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.690	0.50	20.00	0	83.4	70	130				
Benzene	36.360	0.50	40.00	0	90.9	70	130				
Chlorobenzene	19.260	0.50	20.00	0	96.3	70	130				
MTBE	19.460	0.50	20.00	0	97.3	70	130				
Toluene	39.790	0.50	40.00	0	99.5	70	130				
Trichloroethene	18.520	0.50	20.00	0	92.6	70	130				
Surr: 1,2-Dichloroethane-d4	22.270		25.00		89.1	70	130				
Surr: 4-Bromofluorobenzene	26.820		25.00		107	70	130				
Surr: Dibromofluoromethane	22.680		25.00		90.7	70	130				
Surr: Toluene-d8	25.840		25.00		103	70	130				

Sample ID: **A110404MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **131767**
Client ID: **ZZZZZZ** Batch ID: **A11VW055** TestNo: **EPA 8260B** Analysis Date: **4/4/2011** SeqNo: **2145681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.430	0.50	20.00	0	82.2	70	130				
Benzene	35.820	0.50	40.00	0	89.6	70	130				
Chlorobenzene	18.980	0.50	20.00	0	94.9	70	130				
Toluene	39.070	0.50	40.00	0	97.7	70	130				
Trichloroethene	18.280	0.50	20.00	0	91.4	70	130				
Surr: 1,2-Dichloroethane-d4	22.160		25.00		88.6	70	130				
Surr: 4-Bromofluorobenzene	27.120		25.00		108	70	130				
Surr: Dibromofluoromethane	22.660		25.00		90.6	70	130				
Surr: Toluene-d8	25.680		25.00		103	70	130				

Sample ID: **A110404MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **131767**
Client ID: **ZZZZZZ** Batch ID: **A11VW055** TestNo: **EPA 8260B** Analysis Date: **4/4/2011** SeqNo: **2145682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.310	0.50	20.00	0	86.6	70	130	16.43	5.22	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110404MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **131767**
Client ID: **ZZZZZZ** Batch ID: **A11VW055** TestNo: **EPA 8260B** Analysis Date: **4/4/2011** SeqNo: **2145682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.590	0.50	40.00	0	94.0	70	130	35.82	4.82	20	
Chlorobenzene	19.960	0.50	20.00	0	99.8	70	130	18.98	5.03	20	
Toluene	40.990	0.50	40.00	0	102	70	130	39.07	4.80	20	
Trichloroethene	19.270	0.50	20.00	0	96.4	70	130	18.28	5.27	20	
Surr: 1,2-Dichloroethane-d4	22.430		25.00		89.7	70	130		0	0	
Surr: 4-Bromofluorobenzene	27.110		25.00		108	70	130		0	0	
Surr: Dibromofluoromethane	22.660		25.00		90.6	70	130		0	0	
Surr: Toluene-d8	25.850		25.00		103	70	130		0	0	

Sample ID: **A110404MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **131767**
Client ID: **PBW** Batch ID: **A11VW055** TestNo: **EPA 8260B** Analysis Date: **4/4/2011** SeqNo: **2145683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110404MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **131767**
Client ID: **PBW** Batch ID: **A11VW055** TestNo: **EPA 8260B** Analysis Date: **4/4/2011** SeqNo: **2145683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110404MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **131767**
Client ID: **PBW** Batch ID: **A11VW055** TestNo: **EPA 8260B** Analysis Date: **4/4/2011** SeqNo: **2145683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.050		25.00		88.2	70	130				
Surr: 4-Bromofluorobenzene	25.550		25.00		102	70	130				
Surr: Dibromofluoromethane	23.420		25.00		93.7	70	130				
Surr: Toluene-d8	25.210		25.00		101	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-71999** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **4/4/2011** RunNo: **131763**
Client ID: **PBW** Batch ID: **71999** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **4/5/2011** SeqNo: **2145606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.679		1.000		67.9	58	99				
Surr: 2-Fluorobiphenyl	0.672		1.000		67.2	60	104				
Surr: 4-Terphenyl-d14	0.805		1.000		80.5	65	127				
Surr: Nitrobenzene-d5	0.842		1.000		84.2	50	136				

Sample ID: **LCS-71999** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **4/4/2011** RunNo: **131763**
Client ID: **LCSW** Batch ID: **71999** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **4/5/2011** SeqNo: **2145607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.903	0.20	1.000	0	90.3	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.707		1.000		70.7	58	99				
Surr: 2-Fluorobiphenyl	0.688		1.000		68.8	60	104				
Surr: 4-Terphenyl-d14	0.788		1.000		78.8	65	127				
Surr: Nitrobenzene-d5	0.880		1.000		88.0	50	136				

Sample ID: **MB-71999MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **4/4/2011** RunNo: **131763**
Client ID: **ZZZZZZ** Batch ID: **71999** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **4/5/2011** SeqNo: **2145608**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.896	0.20	1.000	0	89.6	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.714		1.000		71.4	58	99				
Surr: 2-Fluorobiphenyl	0.713		1.000		71.3	60	104				
Surr: 4-Terphenyl-d14	0.824		1.000		82.4	65	127				
Surr: Nitrobenzene-d5	0.909		1.000		90.9	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117175
Project: RAYTHEON FULLERTON, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-71999MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **4/4/2011** RunNo: **131763**
Client ID: **ZZZZZZ** Batch ID: **71999** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **4/5/2011** SeqNo: **2145609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.916	0.20	1.000	0	91.6	70	130	0.8958	2.26	30	
Surr: 1,2-Dichlorobenzene-d4	0.761		1.000		76.1	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.757		1.000		75.7	60	104		0	0	
Surr: 4-Terphenyl-d14	0.800		1.000		80.0	65	127		0	0	
Surr: Nitrobenzene-d5	0.961		1.000		96.1	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Client: Advanced Technology Laboratories
Job No.: 130001

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

Sample Preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
117175-002F / EW-02	ND
117175-004E / POX	7.9
117175-006D / CEFF	7.3
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 04-05-11

Calibration Summary

Sample ID: Laboratory Control Standard (50.0 ppb Second Source Standard)

Date Analyzed	Result	% Rec	% Rec Limits
04-04-11	51.5	103	80 - 120

Standard Curve (n=6) $r^2 \geq 0.999$

Quality Control Summary

Sample ID: 117175-004E / POX

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	7.9	5.0	12.6	NA	13.1	NA	4

Sample ID: Batch QC

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	ND	1000	870	87	860	86	1

QC Guidelines

Analyte	% Recovery	RPD Limit
All compounds	75 - 125	10

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, California 90670

TEL: 562 948-2225
FAX: 562 948-5850
Acct #:

Field Sampler: MARCOS RODRIGUEZ

01-Apr-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 317.0		
117175-002F / EW-02	Groundwater	4/1/2011 11:10:00 AM	4OZP	1		
117175-004E / POX	Groundwater	4/1/2011 10:12:00 AM	4OZP	1		
117175-006D / CEFF	Groundwater	4/1/2011 10:30:00 AM	4OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM. (RA)
Please use PO#: SC06311 Please fax results by: NORMAL TAT
ANALYZE THE SAMPLES FOR BROMATE BY EPA 317
PLEASE SEND REPORT TO RACHELLE ARADA

		Date/Time			Date/Time
Relinquished by:		4/1/11	**Received by:**		4/4/11 945
Relinquished by:		4/4/11 1119	**Received by:**		04-04-11/ A11:18

CHAIN OF CUSTODY RECORD

Pg ____ of ____

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: _____ Quote #: _____

Logged By: _____ Date: 4/1/11

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:

Method of Transport
- ☑ Client ☐ ATL
- ☐ FedEx ☐ OnTrac
- ☐ GSO
- ☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED 4 °C Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☑ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☑ N☑

Client: HARGIS + ASSOCIATES, INC
Attn: STEVE NETTO / CHRIS ROSS
Address: 9171 TOWNE CENTRE DR. #375
City SAN DIEGO State CA Zip Code 92122
TEL: 858-455-6500
FAX: 858-455-6533

Project Name: RAYTHEON FULLERTON Project #: 532.15 Sampler: (Printed Name) MARLOS RODRIGUEZ (Signature)

Relinquished by: (Signature and Printed Name) MARLOS RODRIGUEZ	Date: 4/1/11	Time: 13:10	Received by: (Signature and Printed Name) FEDEX	Date: 4/1/11	Time: 1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
MARLOS RODRIGUEZ (Print Name) 4/1/11 (Date)
(Signature)

Send Report To:
Attn: STEVE NETTO
Co: HARGIS + ASSOCIATES, INC
Addr:
City: State: Zip:

Bill To:
Attn:
Co:
Addr:
City: State: Zip:

Special Instructions/Comments:
INCLUDE mrodriguez@hargis.com IN LAB REPORT DISTRIBUTION LIST.
SET 1,4-DIOXANE MDL TO 1.0

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8021 (BTEX)	~~8015B (DRO)~~	TITLE 22 / CAM 17 (6010 / 7000)	1,4-DIOX 8260 MOD	BROMATE 317	TDS 160.1	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	LAB H2O	TAT	Container(s) #	Container(s) Type	PRESERVATION
	117175-01	TB-040111	4/1/11	09:00	X																		X	E	2	VH	
	-2	EW-02		11:10	X			X		X		X	X	X	X				X							B		
	-3	PF		10:25				X											X							1		
	-4	POX		10:12	X			X		X		X	X	X	X				X							7		
	-5	CBT		10:23	X														X							3		
	-6	CEFF	↓	10:30	X								X	X	X				X						↓	6		

QA/QC
RTNE ☐
CT ☐
Legal ☐
SWRCB ☐ Logcode ____
OTHER ____
REMARKS

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: ☐A= Overnight ≤ 24 hrs ☐B= Emergency Next workday ☐C= Critical 2 Workdays ☐D= Urgent 3 Workdays ☑E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

Rachelle Arada

From: Carmen Aguila
Sent: Monday, April 04, 2011 4:05 PM
To: Rachelle Arada
Cc: Ed Caballero; Eddie Rodriguez; Edgar Morrison
Subject: FW: Correction to COC for samples collected on 04/01/2011 for Project #532.15

confirmation wo# 117175.

From: Marcos Rodriguez [mailto:MRODRIGUEZ@HARGIS.COM]
Sent: Monday, April 04, 2011 3:36 PM
To: Carmen Aguila
Subject: Correction to COC for samples collected on 04/01/2011 for Project #532.15

Carmen-

I am writing to notify you of a correction to the chain of custody for samples collected on 04/01/2011 for project #532.15. Sample I.D. "POX" should not be analyzed for TSS via EPA 160.2. I apologize for any inconvenience this may cause.

Thank you.

Marcos Rodriguez
Engineer
HARGIS + ASSOCIATES, INC.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Phone: (858) 455-6500 x155
Fax: (858) 410-7455

April 19, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117312

RE: RAYTHEON FULLERTON, 532.18

Attention: Steve Netto

Enclosed are the results for sample(s) received on April 12, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117312	**Collection Date:**	4/12/2011 9:30:00 AM
Project:	RAYTHEON FULLERTON, 532.18	**Matrix:**	GROUNDWATER
Lab ID:	117312-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED HEXAVALENT CHROMIUM						
		EPA 7199				
RunID: IC7_110412A	QC Batch: R131980			PrepDate:		Analyst: **PT**
Chromium, Hexavalent	2.5	0.20		µg/L	1	4/12/2011 07:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 117312
Project: RAYTHEON FULLERTON, 532.18

ANALYTICAL QC SUMMARY REPORT

TestCode: 7199_W

Sample ID: **MB-R131980** SampType: **MBLK** TestCode: **7199_W** Units: **µg/L** Prep Date: RunNo: **131980**
Client ID: **PBW** Batch ID: **R131980** TestNo: **EPA 7199** Analysis Date: **4/12/2011** SeqNo: **2149843**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	0.20									

Sample ID: **LCS-R131980** SampType: **LCS** TestCode: **7199_W** Units: **µg/L** Prep Date: RunNo: **131980**
Client ID: **LCSW** Batch ID: **R131980** TestNo: **EPA 7199** Analysis Date: **4/12/2011** SeqNo: **2149844**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	4.921	0.20	5.000	0	98.4	90	110				

Sample ID: **117312-001A-MS** SampType: **MS** TestCode: **7199_W** Units: **µg/L** Prep Date: RunNo: **131980**
Client ID: **EW-02** Batch ID: **R131980** TestNo: **EPA 7199** Analysis Date: **4/12/2011** SeqNo: **2149847**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	7.454	0.20	5.000	2.480	99.5	90	110				

Sample ID: **117312-001A-MSD** SampType: **MSD** TestCode: **7199_W** Units: **µg/L** Prep Date: RunNo: **131980**
Client ID: **EW-02** Batch ID: **R131980** TestNo: **EPA 7199** Analysis Date: **4/12/2011** SeqNo: **2149848**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	7.380	0.20	5.000	2.480	98.0	90	110	7.454	0.991	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY · ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 4/12/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON FULLERTON
PROJECT No./TASK No.: 532.18
PROJECT MANAGER: CHRIS ROSS
Phone No.: 858-455-6500
QA MANAGER: STEVE NETTO
Fax No.: 858-455-6533
SAMPLER (SIGNATURE):
SAMPLER (PRINTED): MARCOS RODRIGUEZ

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	MATRIX: Ground-water	MATRIX: Surface water	PRESERVATION: HCl	PRESERVATION: HNO 3	PRESERVATION: NaOH	PRESERVATION: H2SO 4	PRESERVATION: Ice	SAMPLE CONTAINERS: 250 mL Poly	ANALYSIS REQUESTED: HEXAVALENT CHROMIUM BY EPA 7199	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	SPECIAL HANDLING: LAB TO FILTER	SPECIAL HANDLING: 24 HR HOLDING TIME	SPECIAL HANDLING: STANDARD TAT
	EW-02	4/12/11	09:30		X						X	1	X	X	X	X	X

LABORATORY INFORMATION: ATL C/O RACHELLE ARADA 562-989-4045

REMARKS:

Total number of Containers per analysis:

Total No. of Containers:

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	4/12/11	11:30	HHA		4/6/11	11:32	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: DELIVER
Send Results to: STEVE NETTO

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

3.8

May 12, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117677

RE: RAYTHEON MAIN, 532.15

Attention: Steve Netto

Enclosed are the results for sample(s) received on May 04, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Analytical Comments for EPA 300.0

Samples 117677-002C-MS and 117677-002C-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8270C SIM

Sample MB-72688MS, surrogate recovery biased high. The analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc.
Lab Order: 117677
Project: RAYTHEON MAIN, 532.15
Lab ID: 117677-001A

Client Sample ID: TRIP-050411
Collection Date: 5/4/2011 9:30:00 AM
Matrix: LAB H2O

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
2-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
4-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Benzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Bromobenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Bromodichloromethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Bromoform	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Bromomethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Carbon tetrachloride	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Chlorobenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Chloroethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Chloroform	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Chloromethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 02:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TRIP-050411
Lab Order:	117677	**Collection Date:**	5/4/2011 9:30:00 AM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	LAB H2O
Lab ID:	117677-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Dibromochloromethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Dibromomethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Ethylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Isopropylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
m,p-Xylene	ND	1.0		µg/L	1	5/6/2011 02:34 PM
Methylene chloride	ND	1.0		µg/L	1	5/6/2011 02:34 PM
n-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
n-Propylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Naphthalene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
o-Xylene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
sec-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Styrene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
tert-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Tetrachloroethene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Toluene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Trichloroethene	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Vinyl chloride	ND	0.50		µg/L	1	5/6/2011 02:34 PM
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%REC	1	5/6/2011 02:34 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%REC	1	5/6/2011 02:34 PM
Surr: Dibromofluoromethane	106	70-130		%REC	1	5/6/2011 02:34 PM
Surr: Toluene-d8	102	70-130		%REC	1	5/6/2011 02:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117677	**Collection Date:**	5/4/2011 12:30:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,1-Dichloroethane	0.82	0.50		µg/L	1	5/6/2011 03:53 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
2-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
4-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Benzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Bromobenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Bromodichloromethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Bromoform	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Bromomethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Carbon tetrachloride	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Chlorobenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Chloroethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Chloroform	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Chloromethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 03:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117677	**Collection Date:**	5/4/2011 12:30:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Dibromochloromethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Dibromomethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Ethylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Isopropylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
m,p-Xylene	ND	1.0		µg/L	1	5/6/2011 03:53 PM
Methylene chloride	ND	1.0		µg/L	1	5/6/2011 03:53 PM
n-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
n-Propylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Naphthalene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
o-Xylene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
sec-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Styrene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
tert-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Tetrachloroethene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Toluene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Trichloroethene	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Vinyl chloride	ND	0.50		µg/L	1	5/6/2011 03:53 PM
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%REC	1	5/6/2011 03:53 PM
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	1	5/6/2011 03:53 PM
Surr: Dibromofluoromethane	108	70-130		%REC	1	5/6/2011 03:53 PM
Surr: Toluene-d8	103	70-130		%REC	1	5/6/2011 03:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117677	**Collection Date:**	5/4/2011 12:30:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110509B	QC Batch: 72731			PrepDate: 5/6/2011		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	680	10		mg/L	1	5/6/2011 03:23 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	117677	**Collection Date:**	5/4/2011 12:30:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110505A	QC Batch: R132822			PrepDate:		Analyst: **PT**
Bromide	3.2	0.10		mg/L	2	5/5/2011 04:46 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	117677	**Collection Date:**	5/4/2011 12:25:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,1-Dichloroethane	0.75	0.50		µg/L	1	5/6/2011 04:13 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
2-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
4-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Benzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Bromobenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Bromodichloromethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Bromoform	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Bromomethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Carbon tetrachloride	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Chlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Chloroethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Chloroform	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Chloromethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	117677	**Collection Date:**	5/4/2011 12:25:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Dibromochloromethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Dibromomethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Ethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Isopropylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
m,p-Xylene	ND	1.0		µg/L	1	5/6/2011 04:13 PM
Methylene chloride	ND	1.0		µg/L	1	5/6/2011 04:13 PM
n-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
n-Propylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Naphthalene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
o-Xylene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
sec-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Styrene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
tert-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Tetrachloroethene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Toluene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Trichloroethene	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Vinyl chloride	ND	0.50		µg/L	1	5/6/2011 04:13 PM
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%REC	1	5/6/2011 04:13 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%REC	1	5/6/2011 04:13 PM
Surr: Dibromofluoromethane	108	70-130		%REC	1	5/6/2011 04:13 PM
Surr: Toluene-d8	104	70-130		%REC	1	5/6/2011 04:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117677	**Collection Date:**	5/4/2011 12:15:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,1-Dichloroethane	0.60	0.50		µg/L	1	5/6/2011 04:33 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
2-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
4-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Benzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Bromobenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Bromodichloromethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Bromoform	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Bromomethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Carbon tetrachloride	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Chlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Chloroethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Chloroform	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Chloromethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117677	**Collection Date:**	5/4/2011 12:15:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS11_110506A	QC Batch: A11VW072			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Dibromochloromethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Dibromomethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Ethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Isopropylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
m,p-Xylene	ND	1.0		µg/L	1	5/6/2011 04:33 PM
Methylene chloride	ND	1.0		µg/L	1	5/6/2011 04:33 PM
n-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
n-Propylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Naphthalene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
o-Xylene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
sec-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Styrene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
tert-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Tetrachloroethene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Toluene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Trichloroethene	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Vinyl chloride	ND	0.50		µg/L	1	5/6/2011 04:33 PM
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%REC	1	5/6/2011 04:33 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%REC	1	5/6/2011 04:33 PM
Surr: Dibromofluoromethane	110	70-130		%REC	1	5/6/2011 04:33 PM
Surr: Toluene-d8	104	70-130		%REC	1	5/6/2011 04:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117677	**Collection Date:**	5/4/2011 12:15:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110506B	QC Batch: 72688			PrepDate: 5/6/2011		Analyst: **JSD**
1,4-Dioxane	0.35	0.20		µg/L	1	5/7/2011 02:41 AM
Surr: 1,2-Dichlorobenzene-d4	61.1	58-99		%REC	1	5/7/2011 02:41 AM
Surr: 2-Fluorobiphenyl	66.0	60-104		%REC	1	5/7/2011 02:41 AM
Surr: 4-Terphenyl-d14	87.4	65-127		%REC	1	5/7/2011 02:41 AM
Surr: Nitrobenzene-d5	71.9	50-136		%REC	1	5/7/2011 02:41 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117677	**Collection Date:**	5/4/2011 12:15:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110509B	QC Batch: 72731			PrepDate: 5/6/2011		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	690	10		mg/L	1	5/6/2011 03:23 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	117677	**Collection Date:**	5/4/2011 12:15:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110505A	QC Batch: R132822			PrepDate:		Analyst: **PT**
Bromide	3.0	0.10		mg/L	2	5/5/2011 04:57 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	117677	**Collection Date:**	5/4/2011 12:05:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110506B	QC Batch: 72705			PrepDate: 5/6/2011		Analyst: **CBB**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	5/6/2011 09:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117677	**Collection Date:**	5/4/2011 1:05:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,1-Dichloroethane	0.79	0.50		µg/L	1	5/6/2011 04:52 PM
1,1-Dichloroethene	83	0.50		µg/L	1	5/6/2011 04:52 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
2-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
4-Chlorotoluene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Benzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Bromobenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Bromodichloromethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Bromoform	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Bromomethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Carbon tetrachloride	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Chlorobenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Chloroethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Chloroform	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Chloromethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117677	**Collection Date:**	5/4/2011 1:05:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110506A QC Batch: A11VW072 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Dibromochloromethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Dibromomethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Ethylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Isopropylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
m,p-Xylene	ND	1.0		µg/L	1	5/6/2011 04:52 PM
Methylene chloride	ND	1.0		µg/L	1	5/6/2011 04:52 PM
n-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
n-Propylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Naphthalene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
o-Xylene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
sec-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Styrene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
tert-Butylbenzene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Tetrachloroethene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Toluene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Trichloroethene	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Vinyl chloride	ND	0.50		µg/L	1	5/6/2011 04:52 PM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	1	5/6/2011 04:52 PM
Surr: 4-Bromofluorobenzene	99.8	70-130		%REC	1	5/6/2011 04:52 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	5/6/2011 04:52 PM
Surr: Toluene-d8	105	70-130		%REC	1	5/6/2011 04:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117677	**Collection Date:**	5/4/2011 1:05:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110506B	QC Batch: 72688			PrepDate:	5/6/2011	Analyst: **JSD**
1,4-Dioxane	19	2.0		µg/L	10	5/9/2011 12:00 PM
Surr: 1,2-Dichlorobenzene-d4	66.6	58-99		%REC	10	5/9/2011 12:00 PM
Surr: 2-Fluorobiphenyl	73.5	60-104		%REC	10	5/9/2011 12:00 PM
Surr: 4-Terphenyl-d14	104	65-127		%REC	10	5/9/2011 12:00 PM
Surr: Nitrobenzene-d5	72.5	50-136		%REC	10	5/9/2011 12:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117677	**Collection Date:**	5/4/2011 1:05:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110509B	QC Batch: 72731			PrepDate: 5/6/2011		Analyst: **CBB**
Total Dissolved Solids (Residue, Filterable)	680	10		mg/L	1	5/6/2011 03:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117677	**Collection Date:**	5/4/2011 1:05:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-006D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110506B	QC Batch: 72705			PrepDate:	5/6/2011	Analyst: **CBB**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	5/6/2011 09:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	117677	**Collection Date:**	5/4/2011 1:05:00 PM
Project:	RAYTHEON MAIN, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	117677-006E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110505A	QC Batch: R132822			PrepDate:		Analyst: **PT**
Bromide	3.0	0.10		mg/L	2	5/5/2011 05:09 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **117706-001D-DUP**	SampType: **DUP**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **5/6/2011**	RunNo: **132739**
Client ID: **ZZZZZZ**	Batch ID: **72731**	TestNo: **SM2540C**		Analysis Date: **5/6/2011**	SeqNo: **2163502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	933.000	10						928.0	0.537	10	

Sample ID: **LCS-72731**	SampType: **LCS**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **5/6/2011**	RunNo: **132739**
Client ID: **LCSW**	Batch ID: **72731**	TestNo: **SM2540C**		Analysis Date: **5/6/2011**	SeqNo: **2163503**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	1014.000	10	970.0	0	105	80	120				

Sample ID: **MB-72731**	SampType: **MBLK**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **5/6/2011**	RunNo: **132739**
Client ID: **PBW**	Batch ID: **72731**	TestNo: **SM2540C**		Analysis Date: **5/6/2011**	SeqNo: **2163504**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **117677-006D-DUP**	SampType: **DUP**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **5/6/2011**	RunNo: **132693**
Client ID: **EW-02**	Batch ID: **72705**	TestNo: **SM2540D**		Analysis Date: **5/6/2011**	SeqNo: **2162516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-72705**	SampType: **LCS**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **5/6/2011**	RunNo: **132693**
Client ID: **LCSW**	Batch ID: **72705**	TestNo: **SM2540D**		Analysis Date: **5/6/2011**	SeqNo: **2162520**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	102.000	10	96.60	0	106	80	120				

Sample ID: **MB-72705**	SampType: **MBLK**	TestCode: **160.2_2540D_**	Units: **mg/L**	Prep Date: **5/6/2011**	RunNo: **132693**
Client ID: **PBW**	Batch ID: **72705**	TestNo: **SM2540D**		Analysis Date: **5/6/2011**	SeqNo: **2162521**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R132822**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **132822**
Client ID: **PBW**	Batch ID: **R132822**	TestNo: **EPA 300.0**		Analysis Date: **5/5/2011**	SeqNo: **2165295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R132822**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **132822**
Client ID: **LCSW**	Batch ID: **R132822**	TestNo: **EPA 300.0**		Analysis Date: **5/5/2011**	SeqNo: **2165296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.025	0.050	1.000	0	103	90	110				

Sample ID: **117677-002C-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **132822**
Client ID: **CEFF**	Batch ID: **R132822**	TestNo: **EPA 300.0**		Analysis Date: **5/5/2011**	SeqNo: **2165298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.964	0.050						2.909	1.87	20	

Sample ID: **117677-002C-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **132822**
Client ID: **CEFF**	Batch ID: **R132822**	TestNo: **EPA 300.0**		Analysis Date: **5/5/2011**	SeqNo: **2165299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	4.687	0.050	2.500	2.909	71.1	80	120				S

Sample ID: **117677-002C-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **132822**
Client ID: **CEFF**	Batch ID: **R132822**	TestNo: **EPA 300.0**		Analysis Date: **5/5/2011**	SeqNo: **2165300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	4.786	0.050	2.500	2.909	75.1	80	120	4.687	2.10	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110506LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **132728**
Client ID: **LCSW** Batch ID: **A11VW072** TestNo: **EPA 8260B** Analysis Date: **5/6/2011** SeqNo: **2163317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.300	0.50	20.00	0	102	70	130				
Benzene	38.530	0.50	40.00	0	96.3	70	130				
Chlorobenzene	19.650	0.50	20.00	0	98.2	70	130				
MTBE	19.940	0.50	20.00	0	99.7	70	130				
Toluene	42.100	0.50	40.00	0	105	70	130				
Trichloroethene	19.480	0.50	20.00	0	97.4	70	130				
Surr: 1,2-Dichloroethane-d4	23.010		25.00		92.0	70	130				
Surr: 4-Bromofluorobenzene	26.470		25.00		106	70	130				
Surr: Dibromofluoromethane	25.880		25.00		104	70	130				
Surr: Toluene-d8	26.000		25.00		104	70	130				

Sample ID: **A110506MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **132728**
Client ID: **ZZZZZZ** Batch ID: **A11VW072** TestNo: **EPA 8260B** Analysis Date: **5/6/2011** SeqNo: **2163318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.900	0.50	20.00	0	99.5	70	130				
Benzene	38.320	0.50	40.00	0	95.8	70	130				
Chlorobenzene	19.480	0.50	20.00	0	97.4	70	130				
Toluene	41.950	0.50	40.00	0	105	70	130				
Trichloroethene	19.190	0.50	20.00	0	96.0	70	130				
Surr: 1,2-Dichloroethane-d4	22.800		25.00		91.2	70	130				
Surr: 4-Bromofluorobenzene	26.090		25.00		104	70	130				
Surr: Dibromofluoromethane	25.430		25.00		102	70	130				
Surr: Toluene-d8	26.140		25.00		105	70	130				

Sample ID: **A110506MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **132728**
Client ID: **ZZZZZZ** Batch ID: **A11VW072** TestNo: **EPA 8260B** Analysis Date: **5/6/2011** SeqNo: **2163319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.310	0.50	20.00	0	102	70	130	19.90	2.04	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110506MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **132728**
Client ID: **ZZZZZZ** Batch ID: **A11VW072** TestNo: **EPA 8260B** Analysis Date: **5/6/2011** SeqNo: **2163319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.030	0.50	40.00	0	97.6	70	130	38.32	1.84	20	
Chlorobenzene	19.920	0.50	20.00	0	99.6	70	130	19.48	2.23	20	
Toluene	42.550	0.50	40.00	0	106	70	130	41.95	1.42	20	
Trichloroethene	19.820	0.50	20.00	0	99.1	70	130	19.19	3.23	20	
Surr: 1,2-Dichloroethane-d4	22.510		25.00		90.0	70	130		0	0	
Surr: 4-Bromofluorobenzene	26.390		25.00		106	70	130		0	0	
Surr: Dibromofluoromethane	25.510		25.00		102	70	130		0	0	
Surr: Toluene-d8	26.030		25.00		104	70	130		0	0	

Sample ID: **A110506MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **132728**
Client ID: **PBW** Batch ID: **A11VW072** TestNo: **EPA 8260B** Analysis Date: **5/6/2011** SeqNo: **2163320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110506MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **132728**
Client ID: **PBW** Batch ID: **A11VW072** TestNo: **EPA 8260B** Analysis Date: **5/6/2011** SeqNo: **2163320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110506MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **132728**
Client ID: **PBW** Batch ID: **A11VW072** TestNo: **EPA 8260B** Analysis Date: **5/6/2011** SeqNo: **2163320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.240		25.00		93.0	70	130				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	70	130				
Surr: Dibromofluoromethane	26.350		25.00		105	70	130				
Surr: Toluene-d8	25.260		25.00		101	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-72688**	SampType: **MBLK**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **5/6/2011**	RunNo: **132736**
Client ID: **PBW**	Batch ID: **72688**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **5/6/2011**	SeqNo: **2163442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.680		1.000		68.0	58	99				
Surr: 2-Fluorobiphenyl	0.724		1.000		72.4	60	104				
Surr: 4-Terphenyl-d14	1.075		1.000		108	65	127				
Surr: Nitrobenzene-d5	0.829		1.000		82.9	50	136				

Sample ID: **MB-72688MS**	SampType: **MS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **5/6/2011**	RunNo: **132736**
Client ID: **ZZZZZZ**	Batch ID: **72688**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **5/7/2011**	SeqNo: **2163767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.112	0.20	1.000	0	111	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.672		1.000		67.2	58	99				
Surr: 2-Fluorobiphenyl	0.732		1.000		73.2	60	104				
Surr: 4-Terphenyl-d14	1.313		1.000		131	65	127				S
Surr: Nitrobenzene-d5	0.844		1.000		84.4	50	136				

Sample ID: **MB-72688MSD**	SampType: **MSD**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **5/6/2011**	RunNo: **132736**
Client ID: **ZZZZZZ**	Batch ID: **72688**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **5/7/2011**	SeqNo: **2163768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.103	0.20	1.000	0	110	70	130	1.112	0.773	30	
Surr: 1,2-Dichlorobenzene-d4	0.630		1.000		63.0	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.688		1.000		68.8	60	104		0	0	
Surr: 4-Terphenyl-d14	1.128		1.000		113	65	127		0	0	
Surr: Nitrobenzene-d5	0.794		1.000		79.4	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 117677
Project: RAYTHEON MAIN, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **LCS-72688** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **5/6/2011** RunNo: **132736**
Client ID: **LCSW** Batch ID: **72688** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **5/7/2011** SeqNo: **2163769**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.149	0.20	1.000	0	115	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.711		1.000		71.1	58	99				
Surr: 2-Fluorobiphenyl	0.770		1.000		77.0	60	104				
Surr: 4-Terphenyl-d14	1.170		1.000		117	65	127				
Surr: Nitrobenzene-d5	0.877		1.000		87.7	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Client: Advanced Technology Laboratories
Job No.: 130889

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
117677-002D / CEFF	8.0
117677-004E / POX	8.6
117677-006F / EW-02	ND
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 05-17-11

Calibration Summary

Sample ID: Laboratory Control Standard (50.0 ppb Second Source Standard)

Date Analyzed	Result	% Rec	% Rec Limits
05-17-11	50.2	100	80 - 120

Standard Curve (n=6) $r^2 \geq 0.999$

Quality Control Summary

Sample ID: Batch QC

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec
Bromate	ND	1000	964	96
QC Guidelines				75 - 125

Sample ID: Batch QC

Analyte	Sample Result	Duplicate Result	Sample RPD	Spike Conc	Spike Result	Spike % Rec
Bromate	28.0	27.2	3	40.0	70.0	106
QC Guidelines			10			75 - 125

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, California 90670

TEL: 562 948-2225
FAX: 562 948-5850
Acct #:

Field Sampler: MARCOS RODRIGUEZ

04-May-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 317.0		
117677-002D / CEFF	Groundwater	5/4/2011 12:30:00 PM	4OZP	1		
117677-004E / POX	Groundwater	5/4/2011 12:15:00 PM	4OZP	1		
117677-006F / EW-02	Groundwater	5/4/2011 1:05:00 PM	4OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM. (RA)

Please use PO#: SC06379 Please fax results by: NORMAL TAT

ANALYZE THE SAMPLES FOR BROMATE BY EPA 317

PLEASE SEND REPORT TO RACHELLE ARADA

		Date/Time			Date/Time
Relinquished by:		5/5/11	**Received by:**		5/5/11 93
Relinquished by:		5/5/11 1145	**Received by:**	FEDEX	05-05-11 / A11:43

CHAIN OF CUSTODY RECORD

Pg 1 of 1

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: 5/4/11

Method of Transport: Client ☑ ATL ☐ CA OverN ☐ FEDEX ☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED Y☑ N☐ 4. CUSTODY SEAL Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☑ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: RAYTHEON COMPANY C/O HARGIS + ASSOCIATES, INC.
Attn: CHRIS ROSS / STEVE NETTO
Address: 9171 TOWNE CENTRE DR. STE. 375
City SAN DIEGO State CA Zip Code 92122
TEL: (858) 455-6500
FAX: (858) 455-6533

Project Name: RAYTHEON MAIN Project #: 532.15 Sampler: (Printed Name) MARCOS RODRIGUEZ (Signature)

Relinquished by: (Signature and Printed Name) MARCOS RODRIGUEZ	Date: 5/4/11	Time: 15:15	Received by: (Signature and Printed Name) FEDEX	Date: 5/4/11	Time: 1515
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
MARCOS RODRIGUEZ 5/4/11
Print Name Date
Signature

Send Report To:
Attn: STEVE NETTO
Co: HARGIS + ASSOCIATES, INC.
Address 9171 TOWNE CENTRE DR. 375
City SAN DIEGO State CA Zip 92122

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
SEND REPORT TO mrodriguez@hargis.com

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA) SIM for 1,4 DIX	6010B (Total Metals)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	5 I7 FOR BIODEGRADE	300 FOR BIODEGRADE	160.1 FOR TDS	160.2 FOR TSS	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	LAB WATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	117677-01	TRIP-050411	5/4/11	09:30	X																			X	E	2			
	-02	CEFF		12:30	X								X	X	X					X					E	6			
	-03	CBT		12:15	X															X					E	3			
	-04	POX		12:15	X	X							X	X	X					X					E	7			
	-05	PF		12:05												X				X					E	1			
	-06	EW-02		13:05	X	X							X	X	X	X				X					E	8			

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

- TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

June 14, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118244

RE: RAYTHEON FULLERTON - QUARTERLY, 5

Attention: Steve Netto

Enclosed are the results for sample(s) received on June 07, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON FULLERTON - QUARTERLY, 5
Lab Order: 118244

CASE NARRATIVE

Analytical Comments for EPA 300.0

Samples 118244-002A-MS and 118244-002A-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118244	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Chloride	110	10		mg/L	20	6/8/2011 12:22 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Nitrogen, Nitrite	ND	0.10		mg/L	1	6/8/2011 11:25 AM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Nitrogen, Nitrate (As N)	5.5	0.10		mg/L	1	6/8/2011 11:25 AM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.050		mg/L	1	6/8/2011 11:25 AM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Sulfate	120	20		mg/L	20	6/8/2011 12:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118244	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED						
		SM2320B				
RunID: WETCHEM_110610E	QC Batch: R133871			PrepDate:		Analyst: **PT**
Alkalinity, Bicarbonate (As CaCO3)	220	5.0		mg/L	1	6/10/2011
Alkalinity, Carbonate (As CaCO3)	ND	5.0		mg/L	1	6/10/2011
Alkalinity, Hydroxide (As CaCO3)	ND	5.0		mg/L	1	6/10/2011
Alkalinity, Total (As CaCO3)	220	5.0		mg/L	1	6/10/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118244	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3010A			**EPA 6010B**		
RunID: ICP8_110613G	QC Batch: 73543			PrepDate:	6/13/2011	Analyst: **IL**
Selenium	ND	0.010		mg/L	1	6/13/2011 06:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118244	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP						
	EPA 3010A			**EPA 6010B**		
RunID: ICP8_110613E	QC Batch: 73542			PrepDate:	6/13/2011	Analyst: **IL**
Calcium	98	0.50		mg/L	1	6/13/2011 03:31 PM
Iron	ND	0.50		mg/L	1	6/13/2011 03:31 PM
Magnesium	31	0.10		mg/L	1	6/13/2011 03:31 PM
Manganese	ND	0.50		mg/L	1	6/13/2011 03:31 PM
Selenium	ND	0.010		mg/L	1	6/13/2011 03:31 PM
Sodium	80	1.0		mg/L	1	6/13/2011 03:58 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118244	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
CHEMICAL OXYGEN DEMAND						
		EPA 410.4				
RunID: WETCHEM_110610C	QC Batch: 73528			PrepDate:	6/10/2011	Analyst: **PT**
Chemical Oxygen Demand	10	5.0		mg/L	1	6/10/2011

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118244	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-002F		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
		SM5310B				
RunID: TOC1_110608A	QC Batch: R133836			PrepDate:		Analyst: **PT**
Organic Carbon, Total	ND	3.0		mg/L	1	6/8/2011 06:47 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118244	**Collection Date:**	6/7/2011 10:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A QC Batch: R133852				PrepDate:		Analyst: **PT**
Chloride	110	10		mg/L	20	6/8/2011 01:07 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A QC Batch: R133852				PrepDate:		Analyst: **PT**
Nitrogen, Nitrite	ND	0.10		mg/L	1	6/8/2011 11:36 AM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A QC Batch: R133852				PrepDate:		Analyst: **PT**
Nitrogen, Nitrate (As N)	5.5	0.10		mg/L	1	6/8/2011 11:36 AM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A QC Batch: R133852				PrepDate:		Analyst: **PT**
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.050		mg/L	1	6/8/2011 11:36 AM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110608A QC Batch: R133852				PrepDate:		Analyst: **PT**
Sulfate	130	20		mg/L	20	6/8/2011 01:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118244	**Collection Date:**	6/7/2011 10:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
CHEMICAL OXYGEN DEMAND						
		EPA 410.4				
RunID: WETCHEM_110610C	QC Batch: 73528			PrepDate:	6/10/2011	Analyst: **PT**
Chemical Oxygen Demand	12	5.0		mg/L	1	6/10/2011

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118244	**Collection Date:**	6/7/2011 10:15:00 AM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	118244-003C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
		SM5310B				
RunID: TOC1_110608A	QC Batch: R133836			PrepDate:		Analyst: **PT**
Organic Carbon, Total	ND	3.0		mg/L	1	6/8/2011 07:01 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CL

Sample ID: **MB-R133852**	SampType: **MBLK**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **PBW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185602**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R133852**	SampType: **LCS**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **LCSW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.936	0.50	1.000	0	93.6	90	110				

Sample ID: **118244-002A-MS**	SampType: **MS**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	149.102	10	50.00	106.5	85.2	80	120				

Sample ID: **118244-002A-MSD**	SampType: **MSD**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	149.908	10	50.00	106.5	86.9	80	120	149.1	0.539	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO2

Sample ID: **MB-R133852**	SampType: **MBLK**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **PBW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	0.10									

Sample ID: **LCS-R133852**	SampType: **LCS**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **LCSW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	0.934	0.10	1.000	0	93.4	90	110				

Sample ID: **118244-002A-MS**	SampType: **MS**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185624**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	52.846	2.0	50.00	0	106	80	120				

Sample ID: **118244-002A-MSD**	SampType: **MSD**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185625**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	52.652	2.0	50.00	0	105	80	120	52.85	0.368	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3

Sample ID: **MB-R133852**	SampType: **MBLK**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **PBW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10									

Sample ID: **LCS-R133852**	SampType: **LCS**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **LCSW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	0.935	0.10	1.000	0	93.5	90	110				

Sample ID: **118244-002A-MS**	SampType: **MS**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185632**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	56.434	2.0	50.00	6.044	101	80	120				

Sample ID: **118244-002A-MSD**	SampType: **MSD**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	56.096	2.0	50.00	6.044	100	80	120	56.43	0.601	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_PO4

Sample ID: **MB-R133852**	SampType: **MBLK**	TestCode: **300_W_PO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **PBW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	ND	0.050									

Sample ID: **LCS-R133852**	SampType: **LCS**	TestCode: **300_W_PO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **LCSW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	0.937	0.050	1.000	0	93.7	90	110				

Sample ID: **118244-002A-MS**	SampType: **MS**	TestCode: **300_W_PO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	61.688	1.0	50.00	0	123	80	120				S

Sample ID: **118244-002A-MSD**	SampType: **MSD**	TestCode: **300_W_PO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185641**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	62.128	1.0	50.00	0	124	80	120	61.69	0.711	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4

Sample ID: **MB-R133852**	SampType: **MBLK**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **PBW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	1.0									

Sample ID: **LCS-R133852**	SampType: **LCS**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **LCSW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	1.873	1.0	2.000	0	93.7	90	110				

Sample ID: **118244-002A-MS**	SampType: **MS**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	229.240	20	100.0	124.7	105	80	120				

Sample ID: **118244-002A-MSD**	SampType: **MSD**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **EW-02**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	229.484	20	100.0	124.7	105	80	120	229.2	0.106	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 310.1_W_SP_2320B

Sample ID: **118244-002B-MS** SampType: **MS** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **133871**
Client ID: **EW-02** Batch ID: **R133871** TestNo: **SM2320B** Analysis Date: **6/10/2011** SeqNo: **2186062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Carbonate (As CaCO3)	165.217	5.0	200.0	0	82.6	80	120				
Alkalinity, Total (As CaCO3)	426.087	5.0	200.0	221.7	102	80	120				

Sample ID: **118244-002B-MSD** SampType: **MSD** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **133871**
Client ID: **EW-02** Batch ID: **R133871** TestNo: **SM2320B** Analysis Date: **6/10/2011** SeqNo: **2186063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Carbonate (As CaCO3)	160.870	5.0	200.0	0	80.4	80	120	165.2	2.67	20	
Alkalinity, Total (As CaCO3)	423.913	5.0	200.0	221.7	101	80	120	426.1	0.512	20	

Sample ID: **LCS-R133871** SampType: **LCS** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **133871**
Client ID: **LCSW** Batch ID: **R133871** TestNo: **SM2320B** Analysis Date: **6/10/2011** SeqNo: **2186064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Carbonate (As CaCO3)	86.957	5.0	100.0	0	87.0	80	120				
Alkalinity, Total (As CaCO3)	102.174	5.0	100.0	0	102	80	120				

Sample ID: **MB-R133871** SampType: **MBLK** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **133871**
Client ID: **PBW** Batch ID: **R133871** TestNo: **SM2320B** Analysis Date: **6/10/2011** SeqNo: **2186065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0									
Alkalinity, Carbonate (As CaCO3)	ND	5.0									
Alkalinity, Hydroxide (As CaCO3)	ND	5.0									
Alkalinity, Total (As CaCO3)	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 410.4_W

Sample ID: **118244-002E-MS**	SampType: **MS**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **6/10/2011**	RunNo: **133853**
Client ID: **EW-02**	Batch ID: **73528**	TestNo: **EPA 410.4**		Analysis Date: **6/10/2011**	SeqNo: **2185650**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	502.400	5.0	500.0	10.20	98.4	80	120				

Sample ID: **118244-002E-MSD**	SampType: **MSD**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **6/10/2011**	RunNo: **133853**
Client ID: **EW-02**	Batch ID: **73528**	TestNo: **EPA 410.4**		Analysis Date: **6/10/2011**	SeqNo: **2185651**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	492.600	5.0	500.0	10.20	96.5	80	120	502.4	1.97	20	

Sample ID: **LCS-73528**	SampType: **LCS**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **6/10/2011**	RunNo: **133853**
Client ID: **LCSW**	Batch ID: **73528**	TestNo: **EPA 410.4**		Analysis Date: **6/10/2011**	SeqNo: **2185653**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	492.100	5.0	500.0	0	98.4	80	120				

Sample ID: **MB-73528**	SampType: **MBLK**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **6/10/2011**	RunNo: **133853**
Client ID: **PBW**	Batch ID: **73528**	TestNo: **EPA 410.4**		Analysis Date: **6/10/2011**	SeqNo: **2185654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 415.1_5310B_W

Sample ID: **MB-R133836** SampType: **MBLK** TestCode: **415.1_5310B_** Units: **mg/L** Prep Date: RunNo: **133836**
Client ID: **PBW** Batch ID: **R133836** TestNo: **SM5310B** Analysis Date: **6/8/2011** SeqNo: **2185354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	3.0									

Sample ID: **LCS-R133836** SampType: **LCS** TestCode: **415.1_5310B_** Units: **mg/L** Prep Date: RunNo: **133836**
Client ID: **LCSW** Batch ID: **R133836** TestNo: **SM5310B** Analysis Date: **6/8/2011** SeqNo: **2185355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	19.180	3.0	20.00	0	95.9	80	120				

Sample ID: **MBLK-MS** SampType: **MS** TestCode: **415.1_5310B_** Units: **mg/L** Prep Date: RunNo: **133836**
Client ID: **ZZZZZZ** Batch ID: **R133836** TestNo: **SM5310B** Analysis Date: **6/8/2011** SeqNo: **2185356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	19.460	3.0	20.00	0	97.3	70	130				

Sample ID: **MBLK-MSD** SampType: **MSD** TestCode: **415.1_5310B_** Units: **mg/L** Prep Date: RunNo: **133836**
Client ID: **ZZZZZZ** Batch ID: **R133836** TestNo: **SM5310B** Analysis Date: **6/8/2011** SeqNo: **2185357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	19.570	3.0	20.00	0	97.9	70	130	19.46	0.564	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_W

Sample ID: **MB-73543**	SampType: **MBLK**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133933**
Client ID: **PBW**	Batch ID: **73543**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2187337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.010									

Sample ID: **LCS-73543**	SampType: **LCS**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133933**
Client ID: **LCSW**	Batch ID: **73543**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2187338**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.943	0.010	1.000	0	94.3	85	115				

Sample ID: **118246-002D-MS**	SampType: **MS**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133933**
Client ID: **ZZZZZZ**	Batch ID: **73543**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2187352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	2.376	0.010	2.500	0.007727	94.7	78	120				

Sample ID: **118246-002D-MSD**	SampType: **MSD**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133933**
Client ID: **ZZZZZZ**	Batch ID: **73543**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2187353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	2.478	0.010	2.500	0.007727	98.8	78	120	2.376	4.22	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WD

Sample ID: **MB-73542**	SampType: **MBLK**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133893**
Client ID: **PBW**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186472**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	0.50									
Iron	ND	0.50									
Magnesium	ND	0.10									
Manganese	ND	0.50									
Selenium	ND	0.010									

Sample ID: **LCS-73542**	SampType: **LCS**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133893**
Client ID: **LCSW**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186474**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	21.548	0.50	20.00	0	108	85	115				
Iron	21.062	0.50	20.00	0	105	85	115				
Magnesium	22.056	0.10	20.00	0	110	85	115				
Manganese	20.418	0.50	20.00	0	102	85	115				
Selenium	1.002	0.010	1.000	0	100	85	115				

Sample ID: **118244-002D-MS**	SampType: **MS**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133893**
Client ID: **EW-02**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186475**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	127.670	0.50	20.00	97.58	150	37	168				
Iron	21.760	0.50	20.00	0	109	69	133				
Magnesium	56.331	0.10	20.00	31.36	125	69	135				
Manganese	20.501	0.50	20.00	0	103	74	121				
Selenium	2.776	0.010	2.500	0	111	78	120				

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118244
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WD

Sample ID: **118244-002D-MSD**	SampType: **MSD**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133893**
Client ID: **EW-02**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186476**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	125.262	0.50	20.00	97.58	138	23	168	127.7	1.90	20	
Iron	21.380	0.50	20.00	0	107	65	129	21.76	1.76	20	
Magnesium	55.627	0.10	20.00	31.36	121	51	145	56.33	1.26	20	
Manganese	20.072	0.50	20.00	0	100	75	112	20.50	2.12	20	
Selenium	2.675	0.010	2.500	0	107	73	124	2.776	3.70	20	

Sample ID: **MB-73542**	SampType: **MBLK**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133897**
Client ID: **PBW**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186518**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	1.0									

Sample ID: **LCS-73542**	SampType: **LCS**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133897**
Client ID: **LCSW**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186519**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	20.270	1.0	20.00	0	101	85	115				

Sample ID: **118244-002D-MS**	SampType: **MS**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133897**
Client ID: **EW-02**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186521**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	104.714	1.0	20.00	79.59	126	70	130				

Sample ID: **118244-002D-MSD**	SampType: **MSD**	TestCode: **6010_WD**	Units: **mg/L**	Prep Date: **6/13/2011**	RunNo: **133897**
Client ID: **EW-02**	Batch ID: **73542**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **6/13/2011**	SeqNo: **2186522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	103.714	1.0	20.00	79.59	121	75	125	104.7	0.960	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 6/7/2011 PAGE 1 OF 1

PROJECT NAME	RAYTHEON FULLERTON - QUARTERLY
PROJECT No./TASK No.	532-15
PROJECT MANAGER	CHRIS ROSS
Phone No.	858-455-6500
QA MANAGER	STEVE NETTO
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	MARCOS RODRIGUEZ

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX Soil	MATRIX Ground-water	MATRIX Surface water	MATRIX Lab H2O	PRESERVATION HCl	PRESERVATION HNO 3	PRESERVATION NaOH	PRESERVATION H2SO 4	PRESERVATION Ice	SAMPLE CONTAINERS 125 ml Poly	SAMPLE CONTAINERS 250 ml Poly	SAMPLE CONTAINERS 500 ml Poly	SAMPLE CONTAINERS 1 L Amber	SAMPLE CONTAINERS 40 ml VOA	ANALYSIS REQUESTED Total Se by 6010B	ANALYSIS REQUESTED Dissolved Se,Fe,Mn,Ca,Na,Mg by 6010B	ANALYSIS REQUESTED Alkalinity (hydroxide,Bicarbonate, Carbonate and Total) by 310.1	ANALYSIS REQUESTED TOC by 415.1	ANALYSIS REQUESTED Anions (Cl,SO4,NO3,NO2,PO4) by 300	ANALYSIS REQUESTED COD by 410.4	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 10-100	SPECIAL HANDLING Lab to filter and acidify	SPECIAL HANDLING Dissolved metals	SPECIAL HANDLING Lab to filter anions	REMARKS
	TB-060720111	6/7/11	08:30				X	X				X					2							X		X	X		MSD w/DIMEL COC
	EW-02	↓	11:15		X			X	X		X	X	/	/	3	/		X	X	X		X	X		X		X	
	POX	↓	10:15		X			X			X	X	/		/	/						X	X	X			X	

June 16, 2011

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FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118245

RE: Raytheon Fullerton- Monthly, 532.15

Attention: Steve Netto

Enclosed are the results for sample(s) received on June 07, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Analytical Comments for EPA 8270C(M) SIM

Sample 118245-002B, surrogate recovery biased high possibly due to matrix interferences.

Samples 118234-008CMS and 118234-008CMSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc.
Client Sample ID: TB-06072011
Lab Order: 118245
Collection Date: 6/7/2011 8:30:00 AM
Project: Raytheon Fullerton- Monthly, 532.15
Matrix: LAB H2O
Lab ID: 118245-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS2_110615A	QC Batch: Q11VW101			PrepDate:		Analyst: **SLL**
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Benzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Bromobenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Bromoform	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Bromomethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Chlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Chloroethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Chloroform	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Chloromethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 10:06 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Hargis & Associates, Inc.
Lab Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15
Lab ID: 118245-001A

Client Sample ID: TB-06072011
Collection Date: 6/7/2011 8:30:00 AM
Matrix: LAB H2O

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Dibromomethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
m,p-Xylene	ND	1.0		µg/L	1	6/15/2011 10:06 AM
Methylene chloride	ND	1.0		µg/L	1	6/15/2011 10:06 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Naphthalene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
o-Xylene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Styrene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Toluene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Trichloroethene	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Vinyl chloride	ND	0.50		µg/L	1	6/15/2011 10:06 AM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	6/15/2011 10:06 AM
Surr: 4-Bromofluorobenzene	116	70-130		%REC	1	6/15/2011 10:06 AM
Surr: Dibromofluoromethane	95.6	70-130		%REC	1	6/15/2011 10:06 AM
Surr: Toluene-d8	103	70-130		%REC	1	6/15/2011 10:06 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118245	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,1-Dichloroethane	0.65	0.50		µg/L	1	6/15/2011 11:47 AM
1,1-Dichloroethene	67	0.50		µg/L	1	6/15/2011 11:47 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Benzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Bromobenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Bromoform	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Bromomethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Chlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Chloroethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Chloroform	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Chloromethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118245	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Dibromomethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
m,p-Xylene	ND	1.0		µg/L	1	6/15/2011 11:47 AM
Methylene chloride	ND	1.0		µg/L	1	6/15/2011 11:47 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Naphthalene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
o-Xylene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Styrene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Toluene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Trichloroethene	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Vinyl chloride	ND	0.50		µg/L	1	6/15/2011 11:47 AM
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%REC	1	6/15/2011 11:47 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	6/15/2011 11:47 AM
Surr: Dibromofluoromethane	92.4	70-130		%REC	1	6/15/2011 11:47 AM
Surr: Toluene-d8	96.3	70-130		%REC	1	6/15/2011 11:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118245	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS 13_110615A	QC Batch: 73511			PrepDate: 6/10/2011		Analyst: **admin**
1,4-Dioxane	20	2.0		µg/L	10	6/15/2011 01:19 PM
Surr: 1,2-Dichlorobenzene-d4	79.6	58-99		%REC	10	6/15/2011 01:19 PM
Surr: 2-Fluorobiphenyl	98.4	60-104		%REC	10	6/15/2011 01:19 PM
Surr: 4-Terphenyl-d14	136	65-127	S	%REC	10	6/15/2011 01:19 PM
Surr: Nitrobenzene-d5	57.7	50-136		%REC	10	6/15/2011 01:19 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118245	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110609C	QC Batch: 73457			PrepDate:	6/9/2011	Analyst: **CBB**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	6/9/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118245	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110610F	QC Batch: 73547			PrepDate: 6/10/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	660	10		mg/L	1	6/10/2011 03:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118245	**Collection Date:**	6/7/2011 11:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Bromide	3.2	0.10		mg/L	2	6/8/2011 01:19 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	118245	**Collection Date:**	6/7/2011 10:00:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110609C	QC Batch: 73457			PrepDate: 6/9/2011		Analyst: **CBB**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	6/9/2011 08:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Client Sample ID: POX
Lab Order: 118245
Collection Date: 6/7/2011 10:15:00 AM
Project: Raytheon Fullerton- Monthly, 532.15
Matrix: GROUNDWATER
Lab ID: 118245-004A

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,1-Dichloroethene	0.54	0.50		µg/L	1	6/15/2011 10:47 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Benzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Bromobenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Bromoform	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Bromomethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Chlorobenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Chloroethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Chloroform	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Chloromethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 10:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118245	**Collection Date:**	6/7/2011 10:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Dibromomethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
m,p-Xylene	ND	1.0		µg/L	1	6/15/2011 10:47 AM
Methylene chloride	ND	1.0		µg/L	1	6/15/2011 10:47 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Naphthalene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
o-Xylene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Styrene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Toluene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Trichloroethene	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Vinyl chloride	ND	0.50		µg/L	1	6/15/2011 10:47 AM
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%REC	1	6/15/2011 10:47 AM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	6/15/2011 10:47 AM
Surr: Dibromofluoromethane	90.8	70-130		%REC	1	6/15/2011 10:47 AM
Surr: Toluene-d8	96.0	70-130		%REC	1	6/15/2011 10:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118245	**Collection Date:**	6/7/2011 10:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_110613B	QC Batch: 73511			PrepDate: 6/10/2011		Analyst: **JSD**
1,4-Dioxane	0.91	0.20		µg/L	1	6/13/2011 05:05 PM
Surr: 1,2-Dichlorobenzene-d4	76.0	58-99		%REC	1	6/13/2011 05:05 PM
Surr: 2-Fluorobiphenyl	75.8	60-104		%REC	1	6/13/2011 05:05 PM
Surr: 4-Terphenyl-d14	99.4	65-127		%REC	1	6/13/2011 05:05 PM
Surr: Nitrobenzene-d5	80.7	50-136		%REC	1	6/13/2011 05:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118245	**Collection Date:**	6/7/2011 10:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110610F	QC Batch: 73547			PrepDate: 6/10/2011	Analyst: **PT**	
Total Dissolved Solids (Residue, Filterable)	650	10		mg/L	1	6/10/2011 03:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118245	**Collection Date:**	6/7/2011 10:15:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Bromide	3.3	0.10		mg/L	2	6/8/2011 01:30 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** CBT
Lab Order: 118245 **Collection Date:** 6/7/2011 10:25:00 AM
Project: Raytheon Fullerton- Monthly, 532.15 **Matrix:** GROUNDWATER
Lab ID: 118245-005A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110615A	QC Batch: Q11VW101			PrepDate:		Analyst: **SLL**
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,1-Dichloroethane	0.59	0.50		µg/L	1	6/15/2011 11:07 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Benzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Bromobenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Bromoform	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Bromomethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Chlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Chloroethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Chloroform	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Chloromethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:07 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	118245	**Collection Date:**	6/7/2011 10:25:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Dibromomethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
m,p-Xylene	ND	1.0		µg/L	1	6/15/2011 11:07 AM
Methylene chloride	ND	1.0		µg/L	1	6/15/2011 11:07 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Naphthalene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
o-Xylene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Styrene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Toluene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Trichloroethene	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Vinyl chloride	ND	0.50		µg/L	1	6/15/2011 11:07 AM
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	6/15/2011 11:07 AM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	6/15/2011 11:07 AM
Surr: Dibromofluoromethane	95.5	70-130		%REC	1	6/15/2011 11:07 AM
Surr: Toluene-d8	101	70-130		%REC	1	6/15/2011 11:07 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118245	**Collection Date:**	6/7/2011 10:35:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,1-Dichloroethane	0.70	0.50		µg/L	1	6/15/2011 11:27 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
2-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
4-Chlorotoluene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Benzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Bromobenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Bromodichloromethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Bromoform	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Bromomethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Carbon tetrachloride	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Chlorobenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Chloroethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Chloroform	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Chloromethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:27 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118245	**Collection Date:**	6/7/2011 10:35:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110615A QC Batch: Q11VW101 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Dibromochloromethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Dibromomethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Ethylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Isopropylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
m,p-Xylene	ND	1.0		µg/L	1	6/15/2011 11:27 AM
Methylene chloride	ND	1.0		µg/L	1	6/15/2011 11:27 AM
n-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
n-Propylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Naphthalene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
o-Xylene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
sec-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Styrene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
tert-Butylbenzene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Tetrachloroethene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Toluene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Trichloroethene	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Vinyl chloride	ND	0.50		µg/L	1	6/15/2011 11:27 AM
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%REC	1	6/15/2011 11:27 AM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	6/15/2011 11:27 AM
Surr: Dibromofluoromethane	93.9	70-130		%REC	1	6/15/2011 11:27 AM
Surr: Toluene-d8	100	70-130		%REC	1	6/15/2011 11:27 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118245	**Collection Date:**	6/7/2011 10:35:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110610F	QC Batch: 73547			PrepDate: 6/10/2011	Analyst: **PT**	
Total Dissolved Solids (Residue, Filterable)	650	10		mg/L	1	6/10/2011 03:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118245	**Collection Date:**	6/7/2011 10:35:00 AM
Project:	Raytheon Fullerton- Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	118245-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110608A	QC Batch: R133852			PrepDate:		Analyst: **PT**
Bromide	3.2	0.10		mg/L	2	6/8/2011 01:41 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **118245-002D-DUP**	SampType: **DUP**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **6/10/2011**	RunNo: **133888**
Client ID: **EW-02**	Batch ID: **73547**	TestNo: **SM2540C**		Analysis Date: **6/10/2011**	SeqNo: **2186338**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	652.000	10						664.0	1.82	10	

Sample ID: **LCS-73547**	SampType: **LCS**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **6/10/2011**	RunNo: **133888**
Client ID: **LCSW**	Batch ID: **73547**	TestNo: **SM2540C**		Analysis Date: **6/10/2011**	SeqNo: **2186344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	988.000	10	970.0	0	102	80	120				

Sample ID: **MB-73547**	SampType: **MBLK**	TestCode: **160.1_2540C_**	Units: **mg/L**	Prep Date: **6/10/2011**	RunNo: **133888**
Client ID: **PBW**	Batch ID: **73547**	TestNo: **SM2540C**		Analysis Date: **6/10/2011**	SeqNo: **2186345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **118189-001B-DUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **6/9/2011** RunNo: **133785**
Client ID: **ZZZZZZ** Batch ID: **73457** TestNo: **SM2540D** Analysis Date: **6/9/2011** SeqNo: **2184145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-73457** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **6/9/2011** RunNo: **133785**
Client ID: **LCSW** Batch ID: **73457** TestNo: **SM2540D** Analysis Date: **6/9/2011** SeqNo: **2184155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	91.000	10	96.60	0	94.2	80	120				

Sample ID: **MB-73457** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **6/9/2011** RunNo: **133785**
Client ID: **PBW** Batch ID: **73457** TestNo: **SM2540D** Analysis Date: **6/9/2011** SeqNo: **2184156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R133852**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **PBW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R133852**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **LCSW**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.930	0.050	1.000	0	93.0	90	110				

Sample ID: **118244-002A-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **ZZZZZZ**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185612**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	1.0						0	0	20	

Sample ID: **118244-002A-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **ZZZZZZ**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185613**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	50.978	1.0	50.00	0	102	80	120				

Sample ID: **118244-002A-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **133852**
Client ID: **ZZZZZZ**	Batch ID: **R133852**	TestNo: **EPA 300.0**		Analysis Date: **6/8/2011**	SeqNo: **2185614**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	50.504	1.0	50.00	0	101	80	120	50.98	0.934	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110615MB3LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134009**
Client ID: **LCSW** Batch ID: **Q11VW101** TestNo: **EPA 8260B** Analysis Date: **6/15/2011** SeqNo: **2188826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.190	0.50	20.00	0	96.0	70	130				
Benzene	39.310	0.50	40.00	0	98.3	70	130				
Chlorobenzene	20.450	0.50	20.00	0	102	70	130				
MTBE	17.620	0.50	20.00	0	88.1	70	130				
Toluene	41.810	0.50	40.00	0	105	70	130				
Trichloroethene	20.390	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	20.990		25.00		84.0	70	130				
Surr: 4-Bromofluorobenzene	27.980		25.00		112	70	130				
Surr: Dibromofluoromethane	22.490		25.00		90.0	70	130				
Surr: Toluene-d8	25.430		25.00		102	70	130				

Sample ID: **Q110615MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134009**
Client ID: **ZZZZZZ** Batch ID: **Q11VW101** TestNo: **EPA 8260B** Analysis Date: **6/15/2011** SeqNo: **2188827**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.740	0.50	20.00	0	93.7	70	130				
Benzene	39.080	0.50	40.00	0	97.7	70	130				
Chlorobenzene	20.690	0.50	20.00	0	103	70	130				
Toluene	41.720	0.50	40.00	0	104	70	130				
Trichloroethene	20.050	0.50	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	19.820		25.00		79.3	70	130				
Surr: 4-Bromofluorobenzene	26.500		25.00		106	70	130				
Surr: Dibromofluoromethane	21.450		25.00		85.8	70	130				
Surr: Toluene-d8	24.800		25.00		99.2	70	130				

Sample ID: **Q110615MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134009**
Client ID: **ZZZZZZ** Batch ID: **Q11VW101** TestNo: **EPA 8260B** Analysis Date: **6/15/2011** SeqNo: **2188828**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.050	0.50	20.00	0	90.3	70	130	18.74	3.75	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110615MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134009**
Client ID: **ZZZZZZ** Batch ID: **Q11VW101** TestNo: **EPA 8260B** Analysis Date: **6/15/2011** SeqNo: **2188828**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.860	0.50	40.00	0	94.6	70	130	39.08	3.17	20	
Chlorobenzene	20.260	0.50	20.00	0	101	70	130	20.69	2.10	20	
Toluene	40.440	0.50	40.00	0	101	70	130	41.72	3.12	20	
Trichloroethene	19.480	0.50	20.00	0	97.4	70	130	20.05	2.88	20	
Surr: 1,2-Dichloroethane-d4	20.010		25.00		80.0	70	130		0	0	
Surr: 4-Bromofluorobenzene	27.070		25.00		108	70	130		0	0	
Surr: Dibromofluoromethane	21.690		25.00		86.8	70	130		0	0	
Surr: Toluene-d8	25.230		25.00		101	70	130		0	0	

Sample ID: **Q110615MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134009**
Client ID: **PBW** Batch ID: **Q11VW101** TestNo: **EPA 8260B** Analysis Date: **6/15/2011** SeqNo: **2188829**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110615MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134009**
Client ID: **PBW** Batch ID: **Q11VW101** TestNo: **EPA 8260B** Analysis Date: **6/15/2011** SeqNo: **2188829**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110615MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134009**
Client ID: **PBW** Batch ID: **Q11VW101** TestNo: **EPA 8260B** Analysis Date: **6/15/2011** SeqNo: **2188829**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.650		25.00		98.6	70	130				
Surr: 4-Bromofluorobenzene	29.770		25.00		119	70	130				
Surr: Dibromofluoromethane	25.010		25.00		100	70	130				
Surr: Toluene-d8	26.160		25.00		105	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-73511** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/10/2011** RunNo: **133998**
Client ID: **PBW** Batch ID: **73511** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/13/2011** SeqNo: **2188645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.744		1.000		74.4	58	99				
Surr: 2-Fluorobiphenyl	0.743		1.000		74.3	60	104				
Surr: 4-Terphenyl-d14	1.051		1.000		105	65	127				
Surr: Nitrobenzene-d5	0.804		1.000		80.4	50	136				

Sample ID: **LCS-73511** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/10/2011** RunNo: **133998**
Client ID: **LCSW** Batch ID: **73511** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/13/2011** SeqNo: **2188646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.125	0.20	1.000	0	112	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.693		1.000		69.3	58	99				
Surr: 2-Fluorobiphenyl	0.713		1.000		71.3	60	104				
Surr: 4-Terphenyl-d14	1.003		1.000		100	65	127				
Surr: Nitrobenzene-d5	0.754		1.000		75.4	50	136				

Sample ID: **118234-008CMS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/10/2011** RunNo: **133998**
Client ID: **ZZZZZZ** Batch ID: **73511** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **6/13/2011** SeqNo: **2188647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.130	0.20	1.000	0	113	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.568		1.000		56.8	58	99				S
Surr: 2-Fluorobiphenyl	0.621		1.000		62.1	60	104				
Surr: 4-Terphenyl-d14	0.894		1.000		89.4	65	127				
Surr: Nitrobenzene-d5	0.712		1.000		71.2	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118245
Project: Raytheon Fullerton- Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **118234-008CMSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **6/10/2011** RunNo: **133998**
Client ID: **ZZZZZZ** Batch ID: **73511** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **6/13/2011** SeqNo: **2188648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.232	0.20	1.000	0	123	70	130	1.130	8.57	30	
Surr: 1,2-Dichlorobenzene-d4	0.574		1.000		57.4	58	99		0	0	S
Surr: 2-Fluorobiphenyl	0.621		1.000		62.1	60	104		0	0	
Surr: 4-Terphenyl-d14	1.046		1.000		105	65	127		0	0	
Surr: Nitrobenzene-d5	0.711		1.000		71.1	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Client: Advanced Technology Laboratories
Job No.: 131755

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

Sample Preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
118245-002F / EW-02	ND
118245-004E / POX	8.0
118245-006D / CEFF	3.2
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 06-20-11

Calibration Summary

Sample ID: Laboratory Control Standard (50.0 ppb Second Source Standard)

Date Analyzed	Result	% Rec	% Rec Limits
06-20-11	50.7	101	80 - 120

Standard Curve (n=6) $r^2 > 0.999$

Quality Control Summary

Sample ID: 118245-004E / POX

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	8.0	20.0	26.6	93	28.7	104	8
QC Guidelines				75 - 125		75 - 125	10

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, California 90670

TEL: 562 948-2225
FAX: 562 948-5850
Acct #:

Field Sampler: Marcos Rodriguez

08-Jun-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 317.0		
118245-002F / EW-02	Groundwater	6/7/2011 11:15:00 AM	4OZP	1		
118245-004E / POX	Groundwater	6/7/2011 10:15:00 AM	4OZP	1		
118245-006D / CEFF	Groundwater	6/7/2011 10:35:00 AM	4OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM. (RA)

Please use PO#: SC06481 Please fax results by: Normal TAT

Please analyze sample for Bromate by EPA 317

Please send report to Rachelle Arada

REC'D @ 2°C

		Date/Time			Date/Time
Relinquished by:		6/8/11 837	**Received by:**		6/8/11 0930
Relinquished by:		6/8/11 1049	**Received by:**	EXOVA	06-08-11 A10:47

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 6/7/2011 PAGE 1 OF 1

PROJECT NAME Raytheon Fullerton-Monthly	**PROJECT No./TASK No.** 532.15
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Netto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED VOCs by 8260B	1,4-Dioxane by 8270 ~~HOD~~ SIM	Bromate by 317	TDS 160.1	TSS 160.2	Bromide (300.0)	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000
	TB-060720111	6/7/11	08:30				X	X				X	2					X						X			
	EW-02		11:15		X			X				X	3	2	2		1	X	X	X	X		X		X		
	PF		10:22		X							X			1						X				X		
	POX		10:15		X			X				X	3	2	1		1	X	X	X	X		X	X	X		
	CBT		10:25		X			X				X	3					X						X			
	CEFF		10:35		X			X				X	3	2	1			X		X	X		X	X	X		

Total number of Containers per analysis: 4 6 5 2

Total No. of Containers: 27

SPECIAL HANDLING

LABORATORY INFORMATION

ATL
Signal Hill
562-989-4045

REMARKS

Please include
mrodriguez@hargis.com
in lab report
distribution list
set 1,4-Dioxane
MDL to 1.0 ppm

Relinquished by:	Date	Time	Received by:	Date	Time
	6/7/11	11:40		6.7.11	11:40
Company: HTA			Company:		
Relinquished by:	Date	Time	Received by:	Date	Time
	6-7-11	1408	FPOWA	6/7/11	1408
Company:			Company: ATL		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☐ conforms to COC document

Shipment Method: DELIVER
Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

APPENDIX A

LABORATORY ANALYTICAL REPORTS
(THIRD QUARTER 2011)

GROUNDWATER SAMPLING ANALYTICAL RESULTS

August 09, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119243

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on August 02, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 119243

CASE NARRATIVE

Analytical Comments for EPA 8270C

Samples 119243-002B, 119243-003B, 119243-004B and 119243-007B, surrogate recovery biased high possibly due to matrix interferences. Samples contained very high levels of 1,4-Dioxane.

Samples 119243-002B, 119243-003B and 119243-004B, value above quantitation range. Due to isotope dilution, these samples could not be diluted within linear range without diluting out the 1,4 Dioxane d-8 internal standard. 1,4 Dioxane values for these samples are approximated, but quantitative analysis could not be accurately calculated. A 30,000ppb Dioxane standard was run on the analytical instrument and the recovery was 88%.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc.
Lab Order: 119243
Project: RAYTHEON MAIN, 532.30
Lab ID: 119243-001A

Client Sample ID: TB-080211
Collection Date: 8/2/2011 7:00:00 AM
Matrix: LAB H2O

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Benzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Bromobenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Bromoform	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Bromomethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Chlorobenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Chloroethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Chloroform	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Chloromethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 03:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-080211
Lab Order:	119243	**Collection Date:**	8/2/2011 7:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119243-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Dibromomethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Ethylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
m,p-Xylene	ND	1.0		µg/L	1	8/3/2011 03:41 PM
Methylene chloride	ND	1.0		µg/L	1	8/3/2011 03:41 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Naphthalene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
o-Xylene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Styrene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Toluene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Trichloroethene	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Vinyl chloride	ND	0.50		µg/L	1	8/3/2011 03:41 PM
Surr: 1,2-Dichloroethane-d4	79.5	70-130		%REC	1	8/3/2011 03:41 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	8/3/2011 03:41 PM
Surr: Dibromofluoromethane	90.6	70-130		%REC	1	8/3/2011 03:41 PM
Surr: Toluene-d8	94.4	70-130		%REC	1	8/3/2011 03:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	119243	**Collection Date:**	8/2/2011 8:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,1,2-Trichloroethane	11	5.0		µg/L	10	8/4/2011 06:26 PM
1,1-Dichloroethane	34	5.0		µg/L	10	8/4/2011 06:26 PM
1,1-Dichloroethene	2400	25		µg/L	50	8/4/2011 05:47 PM
1,1-Dichloropropene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2,3-Trichloropropane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2-Dibromoethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2-Dichloroethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,2-Dichloropropane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,3-Dichloropropane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
2,2-Dichloropropane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
2-Chlorotoluene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
4-Chlorotoluene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
4-Isopropyltoluene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Benzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Bromobenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Bromodichloromethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Bromoform	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Bromomethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Carbon tetrachloride	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Chlorobenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Chloroethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Chloroform	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Chloromethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	10	8/4/2011 06:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	119243	**Collection Date:**	8/2/2011 8:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Dibromochloromethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Dibromomethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Dichlorodifluoromethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Ethylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Hexachlorobutadiene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Isopropylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
m,p-Xylene	ND	10		µg/L	10	8/4/2011 06:26 PM
Methylene chloride	ND	10		µg/L	10	8/4/2011 06:26 PM
n-Butylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
n-Propylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Naphthalene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
o-Xylene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
sec-Butylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Styrene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
tert-Butylbenzene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Tetrachloroethene	5.6	5.0		µg/L	10	8/4/2011 06:26 PM
Toluene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Trichloroethene	24	5.0		µg/L	10	8/4/2011 06:26 PM
Trichlorofluoromethane	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Vinyl chloride	ND	5.0		µg/L	10	8/4/2011 06:26 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	10	8/4/2011 06:26 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	50	8/4/2011 05:47 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	10	8/4/2011 06:26 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	50	8/4/2011 05:47 PM
Surr: Dibromofluoromethane	115	70-130		%REC	10	8/4/2011 06:26 PM
Surr: Dibromofluoromethane	113	70-130		%REC	50	8/4/2011 05:47 PM
Surr: Toluene-d8	109	70-130		%REC	10	8/4/2011 06:26 PM
Surr: Toluene-d8	109	70-130		%REC	50	8/4/2011 05:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	119243	**Collection Date:**	8/2/2011 8:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate: 8/5/2011		Analyst: **JSD**
1,4-Dioxane	360	2.5	E	µg/L	12.5	8/8/2011 03:20 PM
Surr: 1,2-Dichlorobenzene-d4	101	58-99	S	%REC	12.5	8/8/2011 03:20 PM
Surr: 2-Fluorobiphenyl	96.4	60-104		%REC	12.5	8/8/2011 03:20 PM
Surr: 4-Terphenyl-d14	102	65-127		%REC	12.5	8/8/2011 03:20 PM
Surr: Nitrobenzene-d5	66.5	50-136		%REC	12.5	8/8/2011 03:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	119243	**Collection Date:**	8/2/2011 8:43:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,1,2-Trichloroethane	1.4	0.50		µg/L	1	8/4/2011 04:27 PM
1,1-Dichloroethane	3.1	0.50		µg/L	1	8/4/2011 04:27 PM
1,1-Dichloroethene	370	10		µg/L	20	8/3/2011 07:11 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,2-Dichloroethane	0.61	0.50		µg/L	1	8/4/2011 04:27 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Benzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Bromobenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Bromoform	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Bromomethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Chlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Chloroethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Chloroform	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Chloromethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/4/2011 04:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	119243	**Collection Date:**	8/2/2011 8:43:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Dibromomethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Ethylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
m,p-Xylene	ND	1.0		µg/L	1	8/4/2011 04:27 PM
Methylene chloride	ND	1.0		µg/L	1	8/4/2011 04:27 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Naphthalene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
o-Xylene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Styrene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Tetrachloroethene	0.67	0.50		µg/L	1	8/4/2011 04:27 PM
Toluene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Trichloroethene	0.55	0.50		µg/L	1	8/4/2011 04:27 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Vinyl chloride	ND	0.50		µg/L	1	8/4/2011 04:27 PM
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	1	8/4/2011 04:27 PM
Surr: 1,2-Dichloroethane-d4	77.6	70-130		%REC	20	8/3/2011 07:11 PM
Surr: 4-Bromofluorobenzene	93.9	70-130		%REC	1	8/4/2011 04:27 PM
Surr: 4-Bromofluorobenzene	96.1	70-130		%REC	20	8/3/2011 07:11 PM
Surr: Dibromofluoromethane	115	70-130		%REC	1	8/4/2011 04:27 PM
Surr: Dibromofluoromethane	87.6	70-130		%REC	20	8/3/2011 07:11 PM
Surr: Toluene-d8	89.0	70-130		%REC	20	8/3/2011 07:11 PM
Surr: Toluene-d8	110	70-130		%REC	1	8/4/2011 04:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	119243	**Collection Date:**	8/2/2011 8:43:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate: 8/5/2011	Analyst: **JSD**	
1,4-Dioxane	80	2.5	E	µg/L	12.5	8/8/2011 03:48 PM
Surr: 1,2-Dichlorobenzene-d4	85.7	58-99		%REC	12.5	8/8/2011 03:48 PM
Surr: 2-Fluorobiphenyl	88.9	60-104		%REC	12.5	8/8/2011 03:48 PM
Surr: 4-Terphenyl-d14	89.4	65-127		%REC	12.5	8/8/2011 03:48 PM
Surr: Nitrobenzene-d5	52.8	50-136		%REC	12.5	8/8/2011 03:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-2100
Lab Order:	119243	**Collection Date:**	8/2/2011 9:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,1,1-Trichloroethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,1,2,2-Tetrachloroethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,1,2-Trichloroethane	11	2.5		µg/L	5	8/4/2011 06:06 PM
1,1-Dichloroethane	34	2.5		µg/L	5	8/4/2011 06:06 PM
1,1-Dichloroethene	2000	10		µg/L	20	8/3/2011 06:51 PM
1,1-Dichloropropene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2,3-Trichlorobenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2,3-Trichloropropane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2,4-Trichlorobenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2,4-Trimethylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2-Dibromo-3-chloropropane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2-Dibromoethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2-Dichlorobenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,2-Dichloroethane	4.4	2.5		µg/L	5	8/4/2011 06:06 PM
1,2-Dichloropropane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,3,5-Trimethylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,3-Dichlorobenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,3-Dichloropropane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
1,4-Dichlorobenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
2,2-Dichloropropane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
2-Chlorotoluene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
4-Chlorotoluene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
4-Isopropyltoluene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Benzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Bromobenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Bromodichloromethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Bromoform	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Bromomethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Carbon tetrachloride	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Chlorobenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Chloroethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Chloroform	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Chloromethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
cis-1,2-Dichloroethene	ND	2.5		µg/L	5	8/4/2011 06:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-2100
Lab Order:	119243	**Collection Date:**	8/2/2011 9:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Dibromochloromethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Dibromomethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Dichlorodifluoromethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Ethylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Hexachlorobutadiene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Isopropylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
m,p-Xylene	ND	5.0		µg/L	5	8/4/2011 06:06 PM
Methylene chloride	ND	5.0		µg/L	5	8/4/2011 06:06 PM
n-Butylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
n-Propylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Naphthalene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
o-Xylene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
sec-Butylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Styrene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
tert-Butylbenzene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Tetrachloroethene	5.4	2.5		µg/L	5	8/4/2011 06:06 PM
Toluene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
trans-1,2-Dichloroethene	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Trichloroethene	23	2.5		µg/L	5	8/4/2011 06:06 PM
Trichlorofluoromethane	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Vinyl chloride	ND	2.5		µg/L	5	8/4/2011 06:06 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	5	8/4/2011 06:06 PM
Surr: 1,2-Dichloroethane-d4	75.8	70-130		%REC	20	8/3/2011 06:51 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	5	8/4/2011 06:06 PM
Surr: 4-Bromofluorobenzene	95.1	70-130		%REC	20	8/3/2011 06:51 PM
Surr: Dibromofluoromethane	115	70-130		%REC	5	8/4/2011 06:06 PM
Surr: Dibromofluoromethane	85.2	70-130		%REC	20	8/3/2011 06:51 PM
Surr: Toluene-d8	109	70-130		%REC	5	8/4/2011 06:06 PM
Surr: Toluene-d8	88.8	70-130		%REC	20	8/3/2011 06:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-2100
Lab Order:	119243	**Collection Date:**	8/2/2011 9:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate: 8/5/2011	Analyst: **JSD**	
1,4-Dioxane	340	2.5	E	µg/L	12.5	8/8/2011 04:17 PM
Surr: 1,2-Dichlorobenzene-d4	97.7	58-99		%REC	12.5	8/8/2011 04:17 PM
Surr: 2-Fluorobiphenyl	87.8	60-104		%REC	12.5	8/8/2011 04:17 PM
Surr: 4-Terphenyl-d14	95.0	65-127		%REC	12.5	8/8/2011 04:17 PM
Surr: Nitrobenzene-d5	57.1	50-136		%REC	12.5	8/8/2011 04:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-09
Lab Order:	119243	**Collection Date:**	8/2/2011 12:12:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Benzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Bromobenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Bromoform	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Bromomethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Chlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Chloroethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Chloroform	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Chloromethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-09
Lab Order:	119243	**Collection Date:**	8/2/2011 12:12:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Dibromomethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Ethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
m,p-Xylene	ND	1.0		µg/L	1	8/3/2011 04:23 PM
Methylene chloride	ND	1.0		µg/L	1	8/3/2011 04:23 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Naphthalene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
o-Xylene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Styrene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Toluene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Trichloroethene	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Vinyl chloride	ND	0.50		µg/L	1	8/3/2011 04:23 PM
Surr: 1,2-Dichloroethane-d4	80.6	70-130		%REC	1	8/3/2011 04:23 PM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	8/3/2011 04:23 PM
Surr: Dibromofluoromethane	90.9	70-130		%REC	1	8/3/2011 04:23 PM
Surr: Toluene-d8	93.2	70-130		%REC	1	8/3/2011 04:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-09
Lab Order:	119243	**Collection Date:**	8/2/2011 12:12:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	0.59	0.20		µg/L	1	8/5/2011 08:55 PM
Surr: 1,2-Dichlorobenzene-d4	91.0	58-99		%REC	1	8/5/2011 08:55 PM
Surr: 2-Fluorobiphenyl	97.3	60-104		%REC	1	8/5/2011 08:55 PM
Surr: 4-Terphenyl-d14	111	65-127		%REC	1	8/5/2011 08:55 PM
Surr: Nitrobenzene-d5	90.4	50-136		%REC	1	8/5/2011 08:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-15
Lab Order:	119243	**Collection Date:**	8/2/2011 2:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Benzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Bromobenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Bromoform	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Bromomethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Chlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Chloroethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Chloroform	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Chloromethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-15
Lab Order:	119243	**Collection Date:**	8/2/2011 2:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Dibromomethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Ethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
m,p-Xylene	ND	1.0		µg/L	1	8/3/2011 04:44 PM
Methylene chloride	ND	1.0		µg/L	1	8/3/2011 04:44 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Naphthalene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
o-Xylene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Styrene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Toluene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Trichloroethene	3.9	0.50		µg/L	1	8/3/2011 04:44 PM
Trichlorofluoromethane	7.7	0.50		µg/L	1	8/3/2011 04:44 PM
Vinyl chloride	ND	0.50		µg/L	1	8/3/2011 04:44 PM
Surr: 1,2-Dichloroethane-d4	77.2	70-130		%REC	1	8/3/2011 04:44 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	8/3/2011 04:44 PM
Surr: Dibromofluoromethane	87.5	70-130		%REC	1	8/3/2011 04:44 PM
Surr: Toluene-d8	88.7	70-130		%REC	1	8/3/2011 04:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-08
Lab Order:	119243	**Collection Date:**	8/2/2011 4:02:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,1-Dichloroethene	190	10		µg/L	20	8/3/2011 07:32 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Benzene	0.64	0.50		µg/L	1	8/4/2011 04:47 PM
Bromobenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Bromoform	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Bromomethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Chlorobenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Chloroethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Chloroform	0.86	0.50		µg/L	1	8/4/2011 04:47 PM
Chloromethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
cis-1,2-Dichloroethene	13	0.50		µg/L	1	8/4/2011 04:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-08
Lab Order:	119243	**Collection Date:**	8/2/2011 4:02:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110804A QC Batch: A11VW131 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Dibromomethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Ethylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
m,p-Xylene	ND	1.0		µg/L	1	8/4/2011 04:47 PM
Methylene chloride	ND	1.0		µg/L	1	8/4/2011 04:47 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Naphthalene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
o-Xylene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Styrene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Toluene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Trichloroethene	480	10		µg/L	20	8/3/2011 07:32 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Vinyl chloride	ND	0.50		µg/L	1	8/4/2011 04:47 PM
Surr: 1,2-Dichloroethane-d4	78.8	70-130		%REC	20	8/3/2011 07:32 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%REC	1	8/4/2011 04:47 PM
Surr: 4-Bromofluorobenzene	95.5	70-130		%REC	1	8/4/2011 04:47 PM
Surr: 4-Bromofluorobenzene	98.7	70-130		%REC	20	8/3/2011 07:32 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	8/4/2011 04:47 PM
Surr: Dibromofluoromethane	88.2	70-130		%REC	20	8/3/2011 07:32 PM
Surr: Toluene-d8	107	70-130		%REC	1	8/4/2011 04:47 PM
Surr: Toluene-d8	88.8	70-130		%REC	20	8/3/2011 07:32 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-08
Lab Order:	119243	**Collection Date:**	8/2/2011 4:02:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119243-007B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	0.69	0.20		µg/L	1	8/5/2011 09:24 PM
Surr: 1,2-Dichlorobenzene-d4	77.3	58-99		%REC	1	8/5/2011 09:24 PM
Surr: 2-Fluorobiphenyl	83.9	60-104		%REC	1	8/5/2011 09:24 PM
Surr: 4-Terphenyl-d14	134	65-127	S	%REC	1	8/5/2011 09:24 PM
Surr: Nitrobenzene-d5	73.9	50-136		%REC	1	8/5/2011 09:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110804LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135618**
Client ID: **LCSW** Batch ID: **A11VW131** TestNo: **EPA 8260B** Analysis Date: **8/4/2011** SeqNo: **2221115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.980	0.50	20.00	0	110	70	130				
Benzene	42.550	0.50	40.00	0	106	70	130				
Chlorobenzene	21.000	0.50	20.00	0	105	70	130				
MTBE	22.990	0.50	20.00	0	115	70	130				
Toluene	42.810	0.50	40.00	0	107	70	130				
Trichloroethene	20.510	0.50	20.00	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	26.580		25.00		106	70	130				
Surr: 4-Bromofluorobenzene	23.840		25.00		95.4	70	130				
Surr: Dibromofluoromethane	27.980		25.00		112	70	130				
Surr: Toluene-d8	27.090		25.00		108	70	130				

Sample ID: **A110804MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135618**
Client ID: **ZZZZZZ** Batch ID: **A11VW131** TestNo: **EPA 8260B** Analysis Date: **8/4/2011** SeqNo: **2221116**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.260	0.50	20.00	0	111	70	130				
Benzene	42.890	0.50	40.00	0	107	70	130				
Chlorobenzene	21.220	0.50	20.00	0	106	70	130				
Toluene	43.250	0.50	40.00	0	108	70	130				
Trichloroethene	20.800	0.50	20.00	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	26.170		25.00		105	70	130				
Surr: 4-Bromofluorobenzene	24.020		25.00		96.1	70	130				
Surr: Dibromofluoromethane	27.860		25.00		111	70	130				
Surr: Toluene-d8	27.040		25.00		108	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110804MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135618**
Client ID: **ZZZZZZ** Batch ID: **A11VW131** TestNo: **EPA 8260B** Analysis Date: **8/4/2011** SeqNo: **2221117**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.130	0.50	20.00	0	111	70	130	22.26	0.586	20	
Benzene	42.880	0.50	40.00	0	107	70	130	42.89	0.0233	20	
Chlorobenzene	21.290	0.50	20.00	0	106	70	130	21.22	0.329	20	
Toluene	43.220	0.50	40.00	0	108	70	130	43.25	0.0694	20	
Trichloroethene	20.570	0.50	20.00	0	103	70	130	20.80	1.11	20	
Surr: 1,2-Dichloroethane-d4	26.810		25.00		107	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.130		25.00		96.5	70	130		0	0	
Surr: Dibromofluoromethane	28.430		25.00		114	70	130		0	0	
Surr: Toluene-d8	27.240		25.00		109	70	130		0	0	

Sample ID: **A110804MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135618**
Client ID: **PBW** Batch ID: **A11VW131** TestNo: **EPA 8260B** Analysis Date: **8/4/2011** SeqNo: **2221118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110804MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135618**
Client ID: **PBW** Batch ID: **A11VW131** TestNo: **EPA 8260B** Analysis Date: **8/4/2011** SeqNo: **2221118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110804MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135618**
Client ID: **PBW** Batch ID: **A11VW131** TestNo: **EPA 8260B** Analysis Date: **8/4/2011** SeqNo: **2221118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.360		25.00		105	70	130				
Surr: 4-Bromofluorobenzene	23.290		25.00		93.2	70	130				
Surr: Dibromofluoromethane	28.420		25.00		114	70	130				
Surr: Toluene-d8	27.340		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803CS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **LCSW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.150	0.50	20.00	0	80.8	70	130				
Benzene	40.030	0.50	40.00	0	100	70	130				
Chlorobenzene	20.450	0.50	20.00	0	102	70	130				
MTBE	21.360	0.50	20.00	0	107	70	130				
Toluene	41.680	0.50	40.00	0	104	70	130				
Trichloroethene	20.090	0.50	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	18.090		25.00		72.4	70	130				
Surr: 4-Bromofluorobenzene	25.250		25.00		101	70	130				
Surr: Dibromofluoromethane	21.100		25.00		84.4	70	130				
Surr: Toluene-d8	23.550		25.00		94.2	70	130				

Sample ID: **Q110803MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.360	0.50	20.00	0	86.8	70	130				
Benzene	39.830	0.50	40.00	0	99.6	70	130				
Chlorobenzene	19.990	0.50	20.00	0	100	70	130				
Toluene	41.230	0.50	40.00	0	103	70	130				
Trichloroethene	19.700	0.50	20.00	0	98.5	70	130				
Surr: 1,2-Dichloroethane-d4	17.840		25.00		71.4	70	130				
Surr: 4-Bromofluorobenzene	24.290		25.00		97.2	70	130				
Surr: Dibromofluoromethane	20.640		25.00		82.6	70	130				
Surr: Toluene-d8	23.260		25.00		93.0	70	130				

Sample ID: **Q110803MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.300	0.50	20.00	0	81.5	70	130	17.36	6.30	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.250	0.50	40.00	0	101	70	130	39.83	1.05	20	
Chlorobenzene	20.460	0.50	20.00	0	102	70	130	19.99	2.32	20	
Toluene	42.090	0.50	40.00	0	105	70	130	41.23	2.06	20	
Trichloroethene	20.640	0.50	20.00	0	103	70	130	19.70	4.66	20	
Surr: 1,2-Dichloroethane-d4	17.720		25.00		70.9	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.680		25.00		98.7	70	130		0	0	
Surr: Dibromofluoromethane	20.510		25.00		82.0	70	130		0	0	
Surr: Toluene-d8	23.670		25.00		94.7	70	130		0	0	

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	0.340	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	20.250		25.00		81.0	70	130				
Surr: 4-Bromofluorobenzene	26.400		25.00		106	70	130				
Surr: Dibromofluoromethane	22.420		25.00		89.7	70	130				
Surr: Toluene-d8	23.850		25.00		95.4	70	130				

Sample ID: **119247-003AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.400	0.50	20.00	0	107	70	130				
Benzene	43.730	0.50	40.00	0	109	70	130				
Chlorobenzene	21.350	0.50	20.00	0	107	70	130				
Toluene	45.820	0.50	40.00	0	115	70	130				
Trichloroethene	22.870	0.50	20.00	0	114	70	130				
Surr: 1,2-Dichloroethane-d4	19.310		25.00		77.2	70	130				
Surr: 4-Bromofluorobenzene	25.350		25.00		101	70	130				
Surr: Dibromofluoromethane	21.540		25.00		86.2	70	130				
Surr: Toluene-d8	23.620		25.00		94.5	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **119247-003AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.690	0.50	20.00	0	113	70	130	21.40	5.85	20	
Benzene	47.660	0.50	40.00	0	119	70	130	43.73	8.60	20	
Chlorobenzene	23.130	0.50	20.00	0	116	70	130	21.35	8.00	20	
Toluene	49.540	0.50	40.00	0	124	70	130	45.82	7.80	20	
Trichloroethene	24.930	0.50	20.00	0	125	70	130	22.87	8.62	20	
Surr: 1,2-Dichloroethane-d4	18.580		25.00		74.3	70	130		0	0	
Surr: 4-Bromofluorobenzene	25.480		25.00		102	70	130		0	0	
Surr: Dibromofluoromethane	21.350		25.00		85.4	70	130		0	0	
Surr: Toluene-d8	24.320		25.00		97.3	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74773**	SampType: **MBLK**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **8/5/2011**	RunNo: **135663**
Client ID: **PBW**	Batch ID: **74773**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **8/5/2011**	SeqNo: **2221851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.856		1.000		85.6	58	99				
Surr: 2-Fluorobiphenyl	0.850		1.000		85.0	60	104				
Surr: 4-Terphenyl-d14	1.148		1.000		115	65	127				
Surr: Nitrobenzene-d5	0.836		1.000		83.6	50	136				

Sample ID: **LCS-74773**	SampType: **LCS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **8/5/2011**	RunNo: **135663**
Client ID: **LCSW**	Batch ID: **74773**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **8/5/2011**	SeqNo: **2221852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.996	0.20	1.000	0	99.6	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.850		1.000		85.0	58	99				
Surr: 2-Fluorobiphenyl	0.876		1.000		87.6	60	104				
Surr: 4-Terphenyl-d14	1.120		1.000		112	65	127				
Surr: Nitrobenzene-d5	0.854		1.000		85.4	50	136				

Sample ID: **MB-74773MS**	SampType: **MS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **8/5/2011**	RunNo: **135663**
Client ID: **ZZZZZZ**	Batch ID: **74773**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **8/5/2011**	SeqNo: **2221853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.975	0.20	1.000	0	97.5	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.845		1.000		84.5	58	99				
Surr: 2-Fluorobiphenyl	0.844		1.000		84.4	60	104				
Surr: 4-Terphenyl-d14	1.110		1.000		111	65	127				
Surr: Nitrobenzene-d5	0.807		1.000		80.7	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119243
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74773MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **ZZZZZZ** Batch ID: **74773** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.048	0.20	1.000	0	105	70	130	0.9750	7.22	30	
Surr: 1,2-Dichlorobenzene-d4	0.837		1.000		83.7	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.866		1.000		86.6	60	104		0	0	
Surr: 4-Terphenyl-d14	1.155		1.000		116	65	127		0	0	
Surr: Nitrobenzene-d5	0.865		1.000		86.5	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/2/11 PAGE 1 OF 1

PROJECT NAME	RAYTHEON MAIN
PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross
Phone No.	858-455-6500
QA MANAGER	STEVE Netto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX Soil	MATRIX Ground-water	MATRIX Surface water	MATRIX Lab H20	PRESERVATION HCl	PRESERVATION HNO 3	PRESERVATION NaOH	PRESERVATION H2SO 4	PRESERVATION Ice	SAMPLE CONTAINERS 40 ml VOA	SAMPLE CONTAINERS 1 L Amber	ANALYSIS REQUESTED 8260 VOCs	ANALYSIS REQUESTED 8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING Standard TAT
	TB-080211	8/02/11	700				X	X				X	2		X		X			
	MW-21		830		X			X				X	3	1	X	X				X	
	EW-01		843		X			X				X	3	1	X	X			X		
	MW-2100		900		X			X				X	3	1	X	X				X	
	MW-09		1212		X			X				X	3	1	X	X	X				
	MW-15		1400		X			X				X	3	~~1~~ DUP	X	~~X~~ DUP	X				
	MW-08		1602		X			X				X	3	1	X	X			X		
Total number of Containers per analysis:													20	5							

LABORATORY INFORMATION: ATL; ATTN: Rachelle Arada

REMARKS

Total No. of Containers: 25

Relinquished by:	Date	Time	Received by:	Date	Time
HTA	8/2/11	1655	ATL	8/2/11	1655
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
ATL	8/2/11	1756	FPDHL / ATL	8/2/11	1755
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt: 4.8°C

- ☐ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

August 10, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122

TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119247

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on August 03, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 119247

CASE NARRATIVE

Sample Receiving / General Comments

Headspace <5-6 mm was noted on one voa vial of sample MW-32A.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-080311
Lab Order:	119247	**Collection Date:**	8/3/2011 7:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119247-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Benzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Bromobenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Bromoform	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Bromomethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Chlorobenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Chloroethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Chloroform	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Chloromethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-080311
Lab Order:	119247	**Collection Date:**	8/3/2011 7:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119247-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Dibromomethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Ethylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
m,p-Xylene	ND	1.0		µg/L	1	8/3/2011 04:02 PM
Methylene chloride	ND	1.0		µg/L	1	8/3/2011 04:02 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Naphthalene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
o-Xylene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Styrene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Toluene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Trichloroethene	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Vinyl chloride	ND	0.50		µg/L	1	8/3/2011 04:02 PM
Surr: 1,2-Dichloroethane-d4	79.1	70-130		%REC	1	8/3/2011 04:02 PM
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	1	8/3/2011 04:02 PM
Surr: Dibromofluoromethane	86.7	70-130		%REC	1	8/3/2011 04:02 PM
Surr: Toluene-d8	91.0	70-130		%REC	1	8/3/2011 04:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-18
Lab Order:	119247	**Collection Date:**	8/3/2011 10:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Benzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Bromobenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Bromoform	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Bromomethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Chlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Chloroethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Chloroform	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Chloromethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-18
Lab Order:	119247	**Collection Date:**	8/3/2011 10:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Dibromomethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Ethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
m,p-Xylene	ND	1.0		µg/L	1	8/3/2011 05:06 PM
Methylene chloride	ND	1.0		µg/L	1	8/3/2011 05:06 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Naphthalene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
o-Xylene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Styrene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Toluene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Trichloroethene	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Trichlorofluoromethane	2.8	0.50		µg/L	1	8/3/2011 05:06 PM
Vinyl chloride	ND	0.50		µg/L	1	8/3/2011 05:06 PM
Surr: 1,2-Dichloroethane-d4	76.4	70-130		%REC	1	8/3/2011 05:06 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%REC	1	8/3/2011 05:06 PM
Surr: Dibromofluoromethane	85.8	70-130		%REC	1	8/3/2011 05:06 PM
Surr: Toluene-d8	89.2	70-130		%REC	1	8/3/2011 05:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-18
Lab Order:	119247	**Collection Date:**	8/3/2011 10:12:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/5/2011 09:53 PM
Surr: 1,2-Dichlorobenzene-d4	78.6	58-99		%REC	1	8/5/2011 09:53 PM
Surr: 2-Fluorobiphenyl	79.4	60-104		%REC	1	8/5/2011 09:53 PM
Surr: 4-Terphenyl-d14	108	65-127		%REC	1	8/5/2011 09:53 PM
Surr: Nitrobenzene-d5	78.0	50-136		%REC	1	8/5/2011 09:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32A
Lab Order:	119247	**Collection Date:**	8/3/2011 12:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Benzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Bromobenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Bromoform	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Bromomethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Chlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Chloroethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Chloroform	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Chloromethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32A
Lab Order:	119247	**Collection Date:**	8/3/2011 12:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110803A	QC Batch: Q11VW144			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Dibromomethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Ethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
m,p-Xylene	ND	1.0		µg/L	1	8/3/2011 05:27 PM
Methylene chloride	ND	1.0		µg/L	1	8/3/2011 05:27 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Naphthalene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
o-Xylene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Styrene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Toluene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Trichloroethene	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Vinyl chloride	ND	0.50		µg/L	1	8/3/2011 05:27 PM
Surr: 1,2-Dichloroethane-d4	76.0	70-130		%REC	1	8/3/2011 05:27 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%REC	1	8/3/2011 05:27 PM
Surr: Dibromofluoromethane	85.4	70-130		%REC	1	8/3/2011 05:27 PM
Surr: Toluene-d8	88.1	70-130		%REC	1	8/3/2011 05:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32A
Lab Order:	119247	**Collection Date:**	8/3/2011 12:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/5/2011 10:22 PM
Surr: 1,2-Dichlorobenzene-d4	82.5	58-99		%REC	1	8/5/2011 10:22 PM
Surr: 2-Fluorobiphenyl	87.7	60-104		%REC	1	8/5/2011 10:22 PM
Surr: 4-Terphenyl-d14	117	65-127		%REC	1	8/5/2011 10:22 PM
Surr: Nitrobenzene-d5	78.4	50-136		%REC	1	8/5/2011 10:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Lab Order: 119247
Project: RAYTHEON MAIN, 532.30
Lab ID: 119247-004A

Client Sample ID: RB080311
Collection Date: 8/3/2011 8:30:00 AM
Matrix: GROUNDWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110803A QC Batch: Q11VW144 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Benzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Bromobenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Bromoform	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Bromomethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Chlorobenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Chloroethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Chloroform	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Chloromethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	RB080311
Lab Order:	119247	**Collection Date:**	8/3/2011 8:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110803A	QC Batch: Q11VW144			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Dibromomethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Ethylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
m,p-Xylene	ND	1.0		µg/L	1	8/3/2011 05:48 PM
Methylene chloride	ND	1.0		µg/L	1	8/3/2011 05:48 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Naphthalene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
o-Xylene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Styrene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Toluene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Trichloroethene	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Vinyl chloride	ND	0.50		µg/L	1	8/3/2011 05:48 PM
Surr: 1,2-Dichloroethane-d4	76.0	70-130		%REC	1	8/3/2011 05:48 PM
Surr: 4-Bromofluorobenzene	97.7	70-130		%REC	1	8/3/2011 05:48 PM
Surr: Dibromofluoromethane	85.9	70-130		%REC	1	8/3/2011 05:48 PM
Surr: Toluene-d8	88.3	70-130		%REC	1	8/3/2011 05:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	RB080311
Lab Order:	119247	**Collection Date:**	8/3/2011 8:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119247-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/5/2011 10:51 PM
Surr: 1,2-Dichlorobenzene-d4	76.3	58-99		%REC	1	8/5/2011 10:51 PM
Surr: 2-Fluorobiphenyl	79.7	60-104		%REC	1	8/5/2011 10:51 PM
Surr: 4-Terphenyl-d14	108	65-127		%REC	1	8/5/2011 10:51 PM
Surr: Nitrobenzene-d5	72.4	50-136		%REC	1	8/5/2011 10:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Hargis & Associates, Inc.
Work Order: 119247
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803CS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **LCSW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.150	0.50	20.00	0	80.8	70	130				
Benzene	40.030	0.50	40.00	0	100	70	130				
Chlorobenzene	20.450	0.50	20.00	0	102	70	130				
MTBE	21.360	0.50	20.00	0	107	70	130				
Toluene	41.680	0.50	40.00	0	104	70	130				
Trichloroethene	20.090	0.50	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	18.090		25.00		72.4	70	130				
Surr: 4-Bromofluorobenzene	25.250		25.00		101	70	130				
Surr: Dibromofluoromethane	21.100		25.00		84.4	70	130				
Surr: Toluene-d8	23.550		25.00		94.2	70	130				

Sample ID: **Q110803MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.360	0.50	20.00	0	86.8	70	130				
Benzene	39.830	0.50	40.00	0	99.6	70	130				
Chlorobenzene	19.990	0.50	20.00	0	100	70	130				
Toluene	41.230	0.50	40.00	0	103	70	130				
Trichloroethene	19.700	0.50	20.00	0	98.5	70	130				
Surr: 1,2-Dichloroethane-d4	17.840		25.00		71.4	70	130				
Surr: 4-Bromofluorobenzene	24.290		25.00		97.2	70	130				
Surr: Dibromofluoromethane	20.640		25.00		82.6	70	130				
Surr: Toluene-d8	23.260		25.00		93.0	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119247
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.300	0.50	20.00	0	81.5	70	130	17.36	6.30	20	
Benzene	40.250	0.50	40.00	0	101	70	130	39.83	1.05	20	
Chlorobenzene	20.460	0.50	20.00	0	102	70	130	19.99	2.32	20	
Toluene	42.090	0.50	40.00	0	105	70	130	41.23	2.06	20	
Trichloroethene	20.640	0.50	20.00	0	103	70	130	19.70	4.66	20	
Surr: 1,2-Dichloroethane-d4	17.720		25.00		70.9	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.680		25.00		98.7	70	130		0	0	
Surr: Dibromofluoromethane	20.510		25.00		82.0	70	130		0	0	
Surr: Toluene-d8	23.670		25.00		94.7	70	130		0	0	

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119247
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	0.340	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119247
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	20.250		25.00		81.0	70	130				
Surr: 4-Bromofluorobenzene	26.400		25.00		106	70	130				
Surr: Dibromofluoromethane	22.420		25.00		89.7	70	130				
Surr: Toluene-d8	23.850		25.00		95.4	70	130				

Sample ID: **119247-003AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **MW-32A** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.400	0.50	20.00	0	107	70	130				
Benzene	43.730	0.50	40.00	0	109	70	130				
Chlorobenzene	21.350	0.50	20.00	0	107	70	130				
MTBE	20.670	0.50	20.00	0	103	70	130				
Toluene	45.820	0.50	40.00	0	115	70	130				
Trichloroethene	22.870	0.50	20.00	0	114	70	130				
Surr: 1,2-Dichloroethane-d4	19.310		25.00		77.2	70	130				
Surr: 4-Bromofluorobenzene	25.350		25.00		101	70	130				
Surr: Dibromofluoromethane	21.540		25.00		86.2	70	130				
Surr: Toluene-d8	23.620		25.00		94.5	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119247
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **119247-003AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **MW-32A** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.690	0.50	20.00	0	113	70	130	21.40	5.85	20	
Benzene	47.660	0.50	40.00	0	119	70	130	43.73	8.60	20	
Chlorobenzene	23.130	0.50	20.00	0	116	70	130	21.35	8.00	20	
MTBE	21.410	0.50	20.00	0	107	70	130	20.67	3.52	20	
Toluene	49.540	0.50	40.00	0	124	70	130	45.82	7.80	20	
Trichloroethene	24.930	0.50	20.00	0	125	70	130	22.87	8.62	20	
Surr: 1,2-Dichloroethane-d4	18.580		25.00		74.3	70	130		0	0	
Surr: 4-Bromofluorobenzene	25.480		25.00		102	70	130		0	0	
Surr: Dibromofluoromethane	21.350		25.00		85.4	70	130		0	0	
Surr: Toluene-d8	24.320		25.00		97.3	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119247
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74773** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **PBW** Batch ID: **74773** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.856		1.000		85.6	58	99				
Surr: 2-Fluorobiphenyl	0.850		1.000		85.0	60	104				
Surr: 4-Terphenyl-d14	1.148		1.000		115	65	127				
Surr: Nitrobenzene-d5	0.836		1.000		83.6	50	136				

Sample ID: **LCS-74773** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **LCSW** Batch ID: **74773** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.996	0.20	1.000	0	99.6	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.850		1.000		85.0	58	99				
Surr: 2-Fluorobiphenyl	0.876		1.000		87.6	60	104				
Surr: 4-Terphenyl-d14	1.120		1.000		112	65	127				
Surr: Nitrobenzene-d5	0.854		1.000		85.4	50	136				

Sample ID: **MB-74773MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **ZZZZZZ** Batch ID: **74773** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.975	0.20	1.000	0	97.5	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.845		1.000		84.5	58	99				
Surr: 2-Fluorobiphenyl	0.844		1.000		84.4	60	104				
Surr: 4-Terphenyl-d14	1.110		1.000		111	65	127				
Surr: Nitrobenzene-d5	0.807		1.000		80.7	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119247
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74773MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **ZZZZZZ** Batch ID: **74773** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.048	0.20	1.000	0	105	70	130	0.9750	7.22	30	
Surr: 1,2-Dichlorobenzene-d4	0.837		1.000		83.7	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.866		1.000		86.6	60	104		0	0	
Surr: 4-Terphenyl-d14	1.155		1.000		116	65	127		0	0	
Surr: Nitrobenzene-d5	0.865		1.000		86.5	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/3/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Bean, Daniel Mora	SAMPLER (PRINTED): Amanda Bean, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	REMARKS
	TB-080311	08/03/11	700				X	X				X	2		X		X					
	MW-18		1012		X			X				X	3		X		X					
	MW-18		1012		X							X		1		X						
	MW-32A		1242		X			X				X	3		X		X					MS/MSD (6 extra VOA)
	MW-32A		1242		X							X		1		X						
	FB080311		830				X	X				X	3	1	X	X	X					
													11	3								
													8	2								

Total number of Containers per analysis:

Total No. of Containers: ~~10~~ 13 (14 on COC)

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	8/3/11	1330			8/3/11	1330	ATL
	8/3/11	1406	ATL		8/3/11	1406	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold (4.7°)
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375, SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124, MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220, TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ATL
Attn: Rachelle Arada

August 11, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119273

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on August 04, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 119273

CASE NARRATIVE

Analytical Comments for EPA 8270C

Sample 119273-009B, value above quantitation range. Due to isotope dilution, sample could not be diluted within linear range without diluting out the 1,4 Dioxane d-8 internal standard. 1,4 Dioxane values for this sample are approximated, but quantitative analysis could not be accurately calculated. A 30,000ppb Dioxane standard was run on the analytical instrument and the recovery was 88%.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32B
Lab Order:	119273	**Collection Date:**	8/3/2011 2:34:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110805A QC Batch: A11VW132 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,1-Dichloroethane	0.70	0.50		µg/L	1	8/5/2011 05:53 PM
1,1-Dichloroethene	77	0.50		µg/L	1	8/5/2011 05:53 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Benzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Bromobenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Bromoform	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Bromomethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Chlorobenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Chloroethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Chloroform	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Chloromethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
cis-1,2-Dichloroethene	5.6	0.50		µg/L	1	8/5/2011 05:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32B
Lab Order:	119273	**Collection Date:**	8/3/2011 2:34:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110805A QC Batch: A11VW132 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Dibromomethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Ethylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
m,p-Xylene	ND	1.0		µg/L	1	8/5/2011 05:53 PM
Methylene chloride	ND	1.0		µg/L	1	8/5/2011 05:53 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Naphthalene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
o-Xylene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Styrene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Toluene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Trichloroethene	54	0.50		µg/L	1	8/5/2011 05:53 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Vinyl chloride	ND	0.50		µg/L	1	8/5/2011 05:53 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%REC	1	8/5/2011 05:53 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%REC	1	8/5/2011 05:53 PM
Surr: Dibromofluoromethane	119	70-130		%REC	1	8/5/2011 05:53 PM
Surr: Toluene-d8	107	70-130		%REC	1	8/5/2011 05:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32B
Lab Order:	119273	**Collection Date:**	8/3/2011 2:34:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-001B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	2.5	0.20		µg/L	1	8/5/2011 11:21 PM
Surr: 1,2-Dichlorobenzene-d4	80.7	58-99		%REC	1	8/5/2011 11:21 PM
Surr: 2-Fluorobiphenyl	82.3	60-104		%REC	1	8/5/2011 11:21 PM
Surr: 4-Terphenyl-d14	111	65-127		%REC	1	8/5/2011 11:21 PM
Surr: Nitrobenzene-d5	75.5	50-136		%REC	1	8/5/2011 11:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32C
Lab Order:	119273	**Collection Date:**	8/3/2011 5:14:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32C
Lab Order:	119273	**Collection Date:**	8/3/2011 5:14:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS11_110810A	QC Batch: A11VW135			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 07:29 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 07:29 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 07:29 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	8/10/2011 07:29 PM
Surr: 4-Bromofluorobenzene	93.6	70-130		%REC	1	8/10/2011 07:29 PM
Surr: Dibromofluoromethane	112	70-130		%REC	1	8/10/2011 07:29 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 07:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-32C
Lab Order:	119273	**Collection Date:**	8/3/2011 5:14:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/5/2011 11:50 PM
Surr: 1,2-Dichlorobenzene-d4	78.4	58-99		%REC	1	8/5/2011 11:50 PM
Surr: 2-Fluorobiphenyl	81.1	60-104		%REC	1	8/5/2011 11:50 PM
Surr: 4-Terphenyl-d14	105	65-127		%REC	1	8/5/2011 11:50 PM
Surr: Nitrobenzene-d5	73.5	50-136		%REC	1	8/5/2011 11:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Lab Order: 119273
Project: RAYTHEON MAIN, 532.30
Lab ID: 119273-003A

Client Sample ID: TB-080411
Collection Date: 8/4/2011 7:00:00 AM
Matrix: LAB H2O

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-080411
Lab Order:	119273	**Collection Date:**	8/4/2011 7:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119273-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 06:50 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 06:50 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 06:50 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	8/10/2011 06:50 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	1	8/10/2011 06:50 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	8/10/2011 06:50 PM
Surr: Toluene-d8	109	70-130		%REC	1	8/10/2011 06:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	119273	**Collection Date:**	8/4/2011 8:35:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Chloroform	14	0.50		µg/L	1	8/10/2011 07:49 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	119273	**Collection Date:**	8/4/2011 8:35:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 07:49 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 07:49 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 07:49 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	8/10/2011 07:49 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	8/10/2011 07:49 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	8/10/2011 07:49 PM
Surr: Toluene-d8	109	70-130		%REC	1	8/10/2011 07:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	119273	**Collection Date:**	8/4/2011 8:35:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/6/2011 12:19 AM
Surr: 1,2-Dichlorobenzene-d4	79.5	58-99		%REC	1	8/6/2011 12:19 AM
Surr: 2-Fluorobiphenyl	84.5	60-104		%REC	1	8/6/2011 12:19 AM
Surr: 4-Terphenyl-d14	112	65-127		%REC	1	8/6/2011 12:19 AM
Surr: Nitrobenzene-d5	77.4	50-136		%REC	1	8/6/2011 12:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	119273	**Collection Date:**	8/4/2011 9:17:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	119273	**Collection Date:**	8/4/2011 9:17:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 08:09 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 08:09 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 08:09 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	8/10/2011 08:09 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	8/10/2011 08:09 PM
Surr: Dibromofluoromethane	112	70-130		%REC	1	8/10/2011 08:09 PM
Surr: Toluene-d8	109	70-130		%REC	1	8/10/2011 08:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	119273	**Collection Date:**	8/4/2011 9:17:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/6/2011 12:48 AM
Surr: 1,2-Dichlorobenzene-d4	82.6	58-99		%REC	1	8/6/2011 12:48 AM
Surr: 2-Fluorobiphenyl	84.7	60-104		%REC	1	8/6/2011 12:48 AM
Surr: 4-Terphenyl-d14	113	65-127		%REC	1	8/6/2011 12:48 AM
Surr: Nitrobenzene-d5	75.2	50-136		%REC	1	8/6/2011 12:48 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	119273	**Collection Date:**	8/4/2011 10:37:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	119273	**Collection Date:**	8/4/2011 10:37:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 08:28 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 08:28 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 08:28 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	8/10/2011 08:28 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	8/10/2011 08:28 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	8/10/2011 08:28 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 08:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	119273	**Collection Date:**	8/4/2011 10:37:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/6/2011 01:17 AM
Surr: 1,2-Dichlorobenzene-d4	85.5	58-99		%REC	1	8/6/2011 01:17 AM
Surr: 2-Fluorobiphenyl	94.7	60-104		%REC	1	8/6/2011 01:17 AM
Surr: 4-Terphenyl-d14	118	65-127		%REC	1	8/6/2011 01:17 AM
Surr: Nitrobenzene-d5	79.9	50-136		%REC	1	8/6/2011 01:17 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34C
Lab Order:	119273	**Collection Date:**	8/4/2011 1:23:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34C
Lab Order:	119273	**Collection Date:**	8/4/2011 1:23:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 08:48 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 08:48 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Toluene	9.6	0.50		µg/L	1	8/10/2011 08:48 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 08:48 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	8/10/2011 08:48 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%REC	1	8/10/2011 08:48 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	8/10/2011 08:48 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 08:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34C
Lab Order:	119273	**Collection Date:**	8/4/2011 1:23:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-007B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/6/2011 01:46 AM
Surr: 1,2-Dichlorobenzene-d4	74.2	58-99		%REC	1	8/6/2011 01:46 AM
Surr: 2-Fluorobiphenyl	77.4	60-104		%REC	1	8/6/2011 01:46 AM
Surr: 4-Terphenyl-d14	115	65-127		%REC	1	8/6/2011 01:46 AM
Surr: Nitrobenzene-d5	71.8	50-136		%REC	1	8/6/2011 01:46 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34A
Lab Order:	119273	**Collection Date:**	8/4/2011 1:56:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34A
Lab Order:	119273	**Collection Date:**	8/4/2011 1:56:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 09:08 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 09:08 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Toluene	0.68	0.50		µg/L	1	8/10/2011 09:08 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Trichlorofluoromethane	0.63	0.50		µg/L	1	8/10/2011 09:08 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 09:08 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	8/10/2011 09:08 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	8/10/2011 09:08 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	8/10/2011 09:08 PM
Surr: Toluene-d8	109	70-130		%REC	1	8/10/2011 09:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34A
Lab Order:	119273	**Collection Date:**	8/4/2011 1:56:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-008B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate:	8/5/2011	Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	8/6/2011 02:15 AM
Surr: 1,2-Dichlorobenzene-d4	80.0	58-99		%REC	1	8/6/2011 02:15 AM
Surr: 2-Fluorobiphenyl	86.5	60-104		%REC	1	8/6/2011 02:15 AM
Surr: 4-Terphenyl-d14	109	65-127		%REC	1	8/6/2011 02:15 AM
Surr: Nitrobenzene-d5	74.5	50-136		%REC	1	8/6/2011 02:15 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34B
Lab Order:	119273	**Collection Date:**	8/4/2011 2:32:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110805A QC Batch: A11VW132 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,1,2-Trichloroethane	1.2	0.50		µg/L	1	8/5/2011 06:12 PM
1,1-Dichloroethane	4.8	0.50		µg/L	1	8/5/2011 06:12 PM
1,1-Dichloroethene	410	5.0		µg/L	10	8/8/2011 01:52 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,2-Dichloroethane	0.71	0.50		µg/L	1	8/5/2011 06:12 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Benzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Bromobenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Bromoform	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Bromomethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Chlorobenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Chloroethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Chloroform	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Chloromethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/5/2011 06:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34B
Lab Order:	119273	**Collection Date:**	8/4/2011 2:32:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110805A QC Batch: A11VW132 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Dibromomethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Ethylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
m,p-Xylene	ND	1.0		µg/L	1	8/5/2011 06:12 PM
Methylene chloride	ND	1.0		µg/L	1	8/5/2011 06:12 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Naphthalene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
o-Xylene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Styrene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Toluene	1.5	0.50		µg/L	1	8/5/2011 06:12 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Trichloroethene	0.65	0.50		µg/L	1	8/5/2011 06:12 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Vinyl chloride	ND	0.50		µg/L	1	8/5/2011 06:12 PM
Surr: 1,2-Dichloroethane-d4	111	70-130		%REC	1	8/5/2011 06:12 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	10	8/8/2011 01:52 PM
Surr: 4-Bromofluorobenzene	92.3	70-130		%REC	1	8/5/2011 06:12 PM
Surr: 4-Bromofluorobenzene	92.6	70-130		%REC	10	8/8/2011 01:52 PM
Surr: Dibromofluoromethane	120	70-130		%REC	1	8/5/2011 06:12 PM
Surr: Dibromofluoromethane	114	70-130		%REC	10	8/8/2011 01:52 PM
Surr: Toluene-d8	108	70-130		%REC	10	8/8/2011 01:52 PM
Surr: Toluene-d8	110	70-130		%REC	1	8/5/2011 06:12 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-34B
Lab Order:	119273	**Collection Date:**	8/4/2011 2:32:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119273-009B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110805A	QC Batch: 74773			PrepDate: 8/5/2011	Analyst: **JSD**	
1,4-Dioxane	84	2.5	E	µg/L	12.5	8/8/2011 04:46 PM
Surr: 1,2-Dichlorobenzene-d4	80.0	58-99		%REC	12.5	8/8/2011 04:46 PM
Surr: 2-Fluorobiphenyl	81.0	60-104		%REC	12.5	8/8/2011 04:46 PM
Surr: 4-Terphenyl-d14	98.1	65-127		%REC	12.5	8/8/2011 04:46 PM
Surr: Nitrobenzene-d5	51.7	50-136		%REC	12.5	8/8/2011 04:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110805LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135632**
Client ID: **LCSW** Batch ID: **A11VW132** TestNo: **EPA 8260B** Analysis Date: **8/5/2011** SeqNo: **2221283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.130	0.50	20.00	0	111	70	130				
Benzene	42.680	0.50	40.00	0	107	70	130				
Chlorobenzene	21.230	0.50	20.00	0	106	70	130				
MTBE	23.630	0.50	20.00	0	118	70	130				
Toluene	42.900	0.50	40.00	0	107	70	130				
Trichloroethene	20.100	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	26.990		25.00		108	70	130				
Surr: 4-Bromofluorobenzene	24.150		25.00		96.6	70	130				
Surr: Dibromofluoromethane	28.620		25.00		114	70	130				
Surr: Toluene-d8	27.220		25.00		109	70	130				

Sample ID: **A110805MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135632**
Client ID: **ZZZZZZ** Batch ID: **A11VW132** TestNo: **EPA 8260B** Analysis Date: **8/5/2011** SeqNo: **2221284**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.860	0.50	20.00	0	109	70	130				
Benzene	43.330	0.50	40.00	0	108	70	130				
Chlorobenzene	21.460	0.50	20.00	0	107	70	130				
Toluene	43.520	0.50	40.00	0	109	70	130				
Trichloroethene	20.200	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	26.940		25.00		108	70	130				
Surr: 4-Bromofluorobenzene	24.220		25.00		96.9	70	130				
Surr: Dibromofluoromethane	28.030		25.00		112	70	130				
Surr: Toluene-d8	27.210		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110805MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135632**
Client ID: **ZZZZZZ** Batch ID: **A11VW132** TestNo: **EPA 8260B** Analysis Date: **8/5/2011** SeqNo: **2221285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.430	0.50	20.00	0	102	70	130	21.86	6.76	20	
Benzene	42.250	0.50	40.00	0	106	70	130	43.33	2.52	20	
Chlorobenzene	21.070	0.50	20.00	0	105	70	130	21.46	1.83	20	
Toluene	41.990	0.50	40.00	0	105	70	130	43.52	3.58	20	
Trichloroethene	19.580	0.50	20.00	0	97.9	70	130	20.20	3.12	20	
Surr: 1,2-Dichloroethane-d4	26.810		25.00		107	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.040		25.00		96.2	70	130		0	0	
Surr: Dibromofluoromethane	28.390		25.00		114	70	130		0	0	
Surr: Toluene-d8	27.060		25.00		108	70	130		0	0	

Sample ID: **A110805MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135632**
Client ID: **PBW** Batch ID: **A11VW132** TestNo: **EPA 8260B** Analysis Date: **8/5/2011** SeqNo: **2221286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110805MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135632**
Client ID: **PBW** Batch ID: **A11VW132** TestNo: **EPA 8260B** Analysis Date: **8/5/2011** SeqNo: **2221286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110805MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135632**
Client ID: **PBW** Batch ID: **A11VW132** TestNo: **EPA 8260B** Analysis Date: **8/5/2011** SeqNo: **2221286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	25.900		25.00		104	70	130				
Surr: 4-Bromofluorobenzene	23.520		25.00		94.1	70	130				
Surr: Dibromofluoromethane	28.630		25.00		115	70	130				
Surr: Toluene-d8	27.250		25.00		109	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **LCSW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.500	0.50	20.00	0	112	70	130				
Benzene	43.130	0.50	40.00	0	108	70	130				
Chlorobenzene	21.250	0.50	20.00	0	106	70	130				
MTBE	22.690	0.50	20.00	0	113	70	130				
Toluene	43.150	0.50	40.00	0	108	70	130				
Trichloroethene	20.730	0.50	20.00	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	26.080		25.00		104	70	130				
Surr: 4-Bromofluorobenzene	23.930		25.00		95.7	70	130				
Surr: Dibromofluoromethane	28.020		25.00		112	70	130				
Surr: Toluene-d8	27.030		25.00		108	70	130				

Sample ID: **A110808MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **ZZZZZZ** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.890	0.50	20.00	0	109	70	130				
Benzene	42.690	0.50	40.00	0	107	70	130				
Chlorobenzene	21.140	0.50	20.00	0	106	70	130				
Toluene	43.050	0.50	40.00	0	108	70	130				
Trichloroethene	20.490	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	26.150		25.00		105	70	130				
Surr: 4-Bromofluorobenzene	24.250		25.00		97.0	70	130				
Surr: Dibromofluoromethane	28.160		25.00		113	70	130				
Surr: Toluene-d8	27.030		25.00		108	70	130				

Sample ID: **A110808MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **ZZZZZZ** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.420	0.50	20.00	0	112	70	130	21.89	2.39	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **ZZZZZZ** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.450	0.50	40.00	0	109	70	130	42.69	1.76	20	
Chlorobenzene	21.470	0.50	20.00	0	107	70	130	21.14	1.55	20	
Toluene	43.800	0.50	40.00	0	110	70	130	43.05	1.73	20	
Trichloroethene	21.050	0.50	20.00	0	105	70	130	20.49	2.70	20	
Surr: 1,2-Dichloroethane-d4	26.110		25.00		104	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.020		25.00		96.1	70	130		0	0	
Surr: Dibromofluoromethane	28.190		25.00		113	70	130		0	0	
Surr: Toluene-d8	27.170		25.00		109	70	130		0	0	

Sample ID: **A110808MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **PBW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **PBW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **PBW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	25.880		25.00		104	70	130				
Surr: 4-Bromofluorobenzene	23.380		25.00		93.5	70	130				
Surr: Dibromofluoromethane	28.490		25.00		114	70	130				
Surr: Toluene-d8	27.230		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **LCSW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.400	0.50	20.00	0	112	70	130				
Benzene	42.070	0.50	40.00	0	105	70	130				
Chlorobenzene	20.830	0.50	20.00	0	104	70	130				
MTBE	21.770	0.50	20.00	0	109	70	130				
Toluene	42.270	0.50	40.00	0	106	70	130				
Trichloroethene	20.130	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	25.610		25.00		102	70	130				
Surr: 4-Bromofluorobenzene	24.030		25.00		96.1	70	130				
Surr: Dibromofluoromethane	27.870		25.00		111	70	130				
Surr: Toluene-d8	27.070		25.00		108	70	130				

Sample ID: **A110810MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23.280	0.50	20.00	0	116	70	130				
Benzene	42.940	0.50	40.00	0	107	70	130				
Chlorobenzene	21.250	0.50	20.00	0	106	70	130				
Toluene	43.290	0.50	40.00	0	108	70	130				
Trichloroethene	20.600	0.50	20.00	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	25.670		25.00		103	70	130				
Surr: 4-Bromofluorobenzene	24.070		25.00		96.3	70	130				
Surr: Dibromofluoromethane	27.940		25.00		112	70	130				
Surr: Toluene-d8	27.020		25.00		108	70	130				

Sample ID: **A110810MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.890	0.50	20.00	0	114	70	130	23.28	1.69	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.510	0.50	40.00	0	106	70	130	42.94	1.01	20	
Chlorobenzene	21.040	0.50	20.00	0	105	70	130	21.25	0.993	20	
Toluene	43.040	0.50	40.00	0	108	70	130	43.29	0.579	20	
Trichloroethene	20.660	0.50	20.00	0	103	70	130	20.60	0.291	20	
Surr: 1,2-Dichloroethane-d4	25.410		25.00		102	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.150		25.00		96.6	70	130		0	0	
Surr: Dibromofluoromethane	27.980		25.00		112	70	130		0	0	
Surr: Toluene-d8	26.800		25.00		107	70	130		0	0	

Sample ID: **11289-011AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	26.620	0.50	20.00	0.9300	128	70	130				
Benzene	46.900	0.50	40.00	0	117	70	130				
Chlorobenzene	22.960	0.50	20.00	0	115	70	130				
Toluene	47.250	0.50	40.00	0	118	70	130				
Trichloroethene	22.960	0.50	20.00	0.5000	112	70	130				
Surr: 1,2-Dichloroethane-d4	25.240		25.00		101	70	130				
Surr: 4-Bromofluorobenzene	24.250		25.00		97.0	70	130				
Surr: Dibromofluoromethane	27.630		25.00		111	70	130				
Surr: Toluene-d8	26.760		25.00		107	70	130				

Sample ID: **11289-011AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	26.230	0.50	20.00	0.9300	127	70	130	26.62	1.48	20	
Benzene	46.320	0.50	40.00	0	116	70	130	46.90	1.24	20	
Chlorobenzene	22.590	0.50	20.00	0	113	70	130	22.96	1.62	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **11289-011AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	46.470	0.50	40.00	0	116	70	130	47.25	1.66	20	
Trichloroethene	22.750	0.50	20.00	0.5000	111	70	130	22.96	0.919	20	
Surr: 1,2-Dichloroethane-d4	25.420		25.00		102	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.170		25.00		96.7	70	130		0	0	
Surr: Dibromofluoromethane	27.670		25.00		111	70	130		0	0	
Surr: Toluene-d8	27.060		25.00		108	70	130		0	0	

Sample ID: **A110810MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **PBW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **PBW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **PBW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.550		25.00		98.2	70	130				
Surr: 4-Bromofluorobenzene	23.190		25.00		92.8	70	130				
Surr: Dibromofluoromethane	27.130		25.00		109	70	130				
Surr: Toluene-d8	26.730		25.00		107	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74773** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **PBW** Batch ID: **74773** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221851**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.856		1.000		85.6	58	99				
Surr: 2-Fluorobiphenyl	0.850		1.000		85.0	60	104				
Surr: 4-Terphenyl-d14	1.148		1.000		115	65	127				
Surr: Nitrobenzene-d5	0.836		1.000		83.6	50	136				

Sample ID: **LCS-74773** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **LCSW** Batch ID: **74773** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.996	0.20	1.000	0	99.6	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.850		1.000		85.0	58	99				
Surr: 2-Fluorobiphenyl	0.876		1.000		87.6	60	104				
Surr: 4-Terphenyl-d14	1.120		1.000		112	65	127				
Surr: Nitrobenzene-d5	0.854		1.000		85.4	50	136				

Sample ID: **MB-74773MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **ZZZZZZ** Batch ID: **74773** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.975	0.20	1.000	0	97.5	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.845		1.000		84.5	58	99				
Surr: 2-Fluorobiphenyl	0.844		1.000		84.4	60	104				
Surr: 4-Terphenyl-d14	1.110		1.000		111	65	127				
Surr: Nitrobenzene-d5	0.807		1.000		80.7	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119273
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74773MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/5/2011** RunNo: **135663**
Client ID: **ZZZZZZ** Batch ID: **74773** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **8/5/2011** SeqNo: **2221854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.048	0.20	1.000	0	105	70	130	0.9750	7.22	30	
Surr: 1,2-Dichlorobenzene-d4	0.837		1.000		83.7	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.866		1.000		86.6	60	104		0	0	
Surr: 4-Terphenyl-d14	1.155		1.000		116	65	127		0	0	
Surr: Nitrobenzene-d5	0.865		1.000		86.5	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/4/11 PAGE 1 OF 2

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Bram, Daniel Mora	SAMPLER (PRINTED): Amanda Bram, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-DIoxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT
	MW-32B	8/3/11	1434		X			X				X	3		X			X			
	↓		↓		X							X		1		X					
	MW-32C		1714		X			X				X	3		X		X				
	↓	↓	↓		X							X		1		X					
	TB-080411	8/4/11	700				X	X				X	2		X		X				
	MW-35A		835		X			X				X	3		X		X				
	↓		↓		X							X		1		X					
	MW-35B		917		X			X				X	3		X		X				
	↓		↓		X							X		1		X					
	MW-35C		1037		X			X				X	3		X		X				
	↓		↓		X							X		1		X					
	MW-34C		1323		X			X				X	3		X		X				
	↓		↓		X							X		1		X					
	MW-34A	↓	1356		X			X				X	3		X		X				
Total number of Containers per analysis:													23	6							**Total No. of Containers:** 29 of 34

LABORATORY INFORMATION
ATL
Attn: Rachelle Arada

REMARKS

Relinquished by:	Date	Time	Received by:	Date	Time
HFA	8/4/11	1600	ATL	8/4/11	1600
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
ATL	8/4/11	1630	ATL	8/4/11	1630
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: (Courier) Drop off
Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/4/11 PAGE 2 OF 2

PROJECT NAME	RAYTHEON MAIN
PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross
Phone No.	858-455-6500
QA MANAGER	Steve Netto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	Amanda Blam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml VOA	1 L Amber	ANALYSIS REQUESTED 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING Standard TAT
	MW-34A	8/4/11	1356		X							X		1		X					
	MW-34B	↓	1432		X			X				X	3		X			X			
	↓	↓	↓		X							X		1		X					
Total number of Containers per analysis:													3	2							Total No. of Containers: 5 of 34

LABORATORY INFORMATION: ATL; Attn: Rachelle Arada

REMARKS:

Relinquished by:	Date 8/4/11	Received by:	Date 8/4/11
Company: HFA	Time 1600	Company: ATL	Time 1600
Relinquished by:	Date 8/4/11	Received by:	Date 8/4/11
Company: ATL	Time 1636	Company: ATL	Time 1636

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

August 15, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119289

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on August 05, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 119289

CASE NARRATIVE

Sample Receiving / General Comments

Headspace <5-6 mm was noted on the voa vials of samples MW-30A (1 vial), MW-20 (1 vial) and MW-29 (2 vials).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-080411A
Lab Order:	119289	**Collection Date:**	8/4/2011 4:20:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119289-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-080411A
Lab Order:	119289	**Collection Date:**	8/4/2011 4:20:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119289-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 06:10 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 06:10 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 06:10 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	8/10/2011 06:10 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%REC	1	8/10/2011 06:10 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	8/10/2011 06:10 PM
Surr: Toluene-d8	107	70-130		%REC	1	8/10/2011 06:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-33
Lab Order:	119289	**Collection Date:**	8/4/2011 5:38:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,1-Dichloroethene	5.7	0.50		µg/L	1	8/10/2011 09:28 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-33
Lab Order:	119289	**Collection Date:**	8/4/2011 5:38:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 09:28 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 09:28 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Trichloroethene	1.3	0.50		µg/L	1	8/10/2011 09:28 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 09:28 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	8/10/2011 09:28 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%REC	1	8/10/2011 09:28 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	8/10/2011 09:28 PM
Surr: Toluene-d8	107	70-130		%REC	1	8/10/2011 09:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-33
Lab Order:	119289	**Collection Date:**	8/4/2011 5:38:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate:	8/11/2011	Analyst: **DMP**
1,4-Dioxane	ND	0.20		µg/L	1	8/11/2011 07:02 PM
Surr: 1,2-Dichlorobenzene-d4	78.2	58-99		%REC	1	8/11/2011 07:02 PM
Surr: 2-Fluorobiphenyl	85.0	60-104		%REC	1	8/11/2011 07:02 PM
Surr: 4-Terphenyl-d14	122	65-127		%REC	1	8/11/2011 07:02 PM
Surr: Nitrobenzene-d5	89.4	50-136		%REC	1	8/11/2011 07:02 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	119289	**Collection Date:**	8/4/2011 7:48:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	119289	**Collection Date:**	8/4/2011 7:48:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 09:47 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 09:47 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Toluene	9.7	0.50		µg/L	1	8/10/2011 09:47 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 09:47 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	8/10/2011 09:47 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	8/10/2011 09:47 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	8/10/2011 09:47 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 09:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	119289	**Collection Date:**	8/4/2011 7:48:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate: 8/11/2011	Analyst: **DMP**	
1,4-Dioxane	0.34	0.20		µg/L	1	8/11/2011 07:31 PM
Surr: 1,2-Dichlorobenzene-d4	74.6	58-99		%REC	1	8/11/2011 07:31 PM
Surr: 2-Fluorobiphenyl	81.1	60-104		%REC	1	8/11/2011 07:31 PM
Surr: 4-Terphenyl-d14	112	65-127		%REC	1	8/11/2011 07:31 PM
Surr: Nitrobenzene-d5	84.5	50-136		%REC	1	8/11/2011 07:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	RB-080511
Lab Order:	119289	**Collection Date:**	8/5/2011 10:10:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119289-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	RB-080511
Lab Order:	119289	**Collection Date:**	8/5/2011 10:10:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119289-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 06:30 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 06:30 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 06:30 PM
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%REC	1	8/10/2011 06:30 PM
Surr: 4-Bromofluorobenzene	93.9	70-130		%REC	1	8/10/2011 06:30 PM
Surr: Dibromofluoromethane	109	70-130		%REC	1	8/10/2011 06:30 PM
Surr: Toluene-d8	107	70-130		%REC	1	8/10/2011 06:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	RB-080511
Lab Order:	119289	**Collection Date:**	8/5/2011 10:10:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	LAB H2O
Lab ID:	119289-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate:	8/11/2011	Analyst: **DMP**
1,4-Dioxane	ND	0.20		µg/L	1	8/11/2011 06:33 PM
Surr: 1,2-Dichlorobenzene-d4	73.7	58-99		%REC	1	8/11/2011 06:33 PM
Surr: 2-Fluorobiphenyl	83.1	60-104		%REC	1	8/11/2011 06:33 PM
Surr: 4-Terphenyl-d14	110	65-127		%REC	1	8/11/2011 06:33 PM
Surr: Nitrobenzene-d5	90.6	50-136		%REC	1	8/11/2011 06:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-20
Lab Order:	119289	**Collection Date:**	8/5/2011 12:32:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,1-Dichloroethene	0.80	0.50		µg/L	1	8/10/2011 10:07 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Chloroform	0.59	0.50		µg/L	1	8/10/2011 10:07 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 10:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-20
Lab Order:	119289	**Collection Date:**	8/5/2011 12:32:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 10:07 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 10:07 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 10:07 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	8/10/2011 10:07 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	8/10/2011 10:07 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	8/10/2011 10:07 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 10:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-20
Lab Order:	119289	**Collection Date:**	8/5/2011 12:32:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate: 8/11/2011		Analyst: **DMP**
1,4-Dioxane	0.80	0.20		µg/L	1	8/11/2011 08:00 PM
Surr: 1,2-Dichlorobenzene-d4	74.2	58-99		%REC	1	8/11/2011 08:00 PM
Surr: 2-Fluorobiphenyl	79.7	60-104		%REC	1	8/11/2011 08:00 PM
Surr: 4-Terphenyl-d14	103	65-127		%REC	1	8/11/2011 08:00 PM
Surr: Nitrobenzene-d5	85.3	50-136		%REC	1	8/11/2011 08:00 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-16
Lab Order:	119289	**Collection Date:**	8/5/2011 3:35:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,1,2-Trichloroethane	2.9	1.0		µg/L	2	8/10/2011 11:26 PM
1,1-Dichloroethane	8.9	1.0		µg/L	2	8/10/2011 11:26 PM
1,1-Dichloroethene	910	10		µg/L	20	8/10/2011 11:06 PM
1,1-Dichloropropene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2,3-Trichloropropane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2-Dibromo-3-chloropropane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2-Dibromoethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,2-Dichloroethane	1.5	1.0		µg/L	2	8/10/2011 11:26 PM
1,2-Dichloropropane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,3-Dichloropropane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
2,2-Dichloropropane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
2-Chlorotoluene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
4-Chlorotoluene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
4-Isopropyltoluene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Benzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Bromobenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Bromodichloromethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Bromoform	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Bromomethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Carbon tetrachloride	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Chlorobenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Chloroethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Chloroform	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Chloromethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
cis-1,2-Dichloroethene	ND	1.0		µg/L	2	8/10/2011 11:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-16
Lab Order:	119289	**Collection Date:**	8/5/2011 3:35:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Dibromochloromethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Dibromomethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Dichlorodifluoromethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Ethylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Hexachlorobutadiene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Isopropylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
m,p-Xylene	ND	2.0		µg/L	2	8/10/2011 11:26 PM
Methylene chloride	ND	2.0		µg/L	2	8/10/2011 11:26 PM
n-Butylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
n-Propylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Naphthalene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
o-Xylene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
sec-Butylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Styrene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
tert-Butylbenzene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Tetrachloroethene	1.1	1.0		µg/L	2	8/10/2011 11:26 PM
Toluene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
trans-1,2-Dichloroethene	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Trichloroethene	5.3	1.0		µg/L	2	8/10/2011 11:26 PM
Trichlorofluoromethane	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Vinyl chloride	ND	1.0		µg/L	2	8/10/2011 11:26 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	2	8/10/2011 11:26 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	20	8/10/2011 11:06 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	2	8/10/2011 11:26 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%REC	20	8/10/2011 11:06 PM
Surr: Dibromofluoromethane	116	70-130		%REC	2	8/10/2011 11:26 PM
Surr: Dibromofluoromethane	114	70-130		%REC	20	8/10/2011 11:06 PM
Surr: Toluene-d8	108	70-130		%REC	20	8/10/2011 11:06 PM
Surr: Toluene-d8	108	70-130		%REC	2	8/10/2011 11:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-16
Lab Order:	119289	**Collection Date:**	8/5/2011 3:35:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate: 8/11/2011		Analyst: **DMP**
1,4-Dioxane	260	2.0		µg/L	10	8/11/2011 10:26 PM
Surr: 1,2-Dichlorobenzene-d4	94.4	58-99		%REC	10	8/11/2011 10:26 PM
Surr: 2-Fluorobiphenyl	79.5	60-104		%REC	10	8/11/2011 10:26 PM
Surr: 4-Terphenyl-d14	106	65-127		%REC	10	8/11/2011 10:26 PM
Surr: Nitrobenzene-d5	67.5	50-136		%REC	10	8/11/2011 10:26 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-28
Lab Order:	119289	**Collection Date:**	8/5/2011 9:26:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,1-Dichloroethene	1.7	0.50		µg/L	1	8/10/2011 10:27 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 10:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-28
Lab Order:	119289	**Collection Date:**	8/5/2011 9:26:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-007A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 10:27 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 10:27 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Trichloroethene	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 10:27 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	8/10/2011 10:27 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	8/10/2011 10:27 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	8/10/2011 10:27 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 10:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-28
Lab Order:	119289	**Collection Date:**	8/5/2011 9:26:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-007B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate: 8/11/2011		Analyst: **DMP**
1,4-Dioxane	0.53	0.20		µg/L	1	8/11/2011 08:30 PM
Surr: 1,2-Dichlorobenzene-d4	66.1	58-99		%REC	1	8/11/2011 08:30 PM
Surr: 2-Fluorobiphenyl	74.9	60-104		%REC	1	8/11/2011 08:30 PM
Surr: 4-Terphenyl-d14	122	65-127		%REC	1	8/11/2011 08:30 PM
Surr: Nitrobenzene-d5	72.2	50-136		%REC	1	8/11/2011 08:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Lab Order: 119289
Project: RAYTHEON MAIN, 532.30
Lab ID: 119289-008A

Client Sample ID: MW-31
Collection Date: 8/5/2011 10:32:00 AM
Matrix: GROUNDWATER

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,1-Dichloroethane	0.69	0.50		µg/L	1	8/10/2011 10:46 PM
1,1-Dichloroethene	93	2.5		µg/L	5	8/11/2011 04:00 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 10:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-31
Lab Order:	119289	**Collection Date:**	8/5/2011 10:32:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-008A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 10:46 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 10:46 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Trichloroethene	6.9	0.50		µg/L	1	8/10/2011 10:46 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 10:46 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	8/10/2011 10:46 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	5	8/11/2011 04:00 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	1	8/10/2011 10:46 PM
Surr: 4-Bromofluorobenzene	93.5	70-130		%REC	5	8/11/2011 04:00 PM
Surr: Dibromofluoromethane	112	70-130		%REC	1	8/10/2011 10:46 PM
Surr: Dibromofluoromethane	117	70-130		%REC	5	8/11/2011 04:00 PM
Surr: Toluene-d8	106	70-130		%REC	5	8/11/2011 04:00 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 10:46 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-31
Lab Order:	119289	**Collection Date:**	8/5/2011 10:32:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-008B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate:	8/11/2011	Analyst: **DMP**
1,4-Dioxane	1.1	0.20		µg/L	1	8/11/2011 08:59 PM
Surr: 1,2-Dichlorobenzene-d4	76.0	58-99		%REC	1	8/11/2011 08:59 PM
Surr: 2-Fluorobiphenyl	86.1	60-104		%REC	1	8/11/2011 08:59 PM
Surr: 4-Terphenyl-d14	123	65-127		%REC	1	8/11/2011 08:59 PM
Surr: Nitrobenzene-d5	87.6	50-136		%REC	1	8/11/2011 08:59 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-2900
Lab Order:	119289	**Collection Date:**	8/5/2011 11:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,1,2-Trichloroethane	0.75	0.50		µg/L	1	8/11/2011 01:56 PM
1,1-Dichloroethane	3.6	0.50		µg/L	1	8/11/2011 01:56 PM
1,1-Dichloroethene	370	2.5		µg/L	5	8/8/2011 06:49 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,2-Dichloroethane	0.54	0.50		µg/L	1	8/11/2011 01:56 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Benzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Bromobenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Bromoform	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Bromomethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Chlorobenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Chloroethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Chloroform	0.62	0.50		µg/L	1	8/11/2011 01:56 PM
Chloromethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
cis-1,2-Dichloroethene	0.57	0.50		µg/L	1	8/11/2011 01:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-2900
Lab Order:	119289	**Collection Date:**	8/5/2011 11:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-009A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Dibromomethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Ethylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
m,p-Xylene	ND	1.0		µg/L	1	8/11/2011 01:56 PM
Methylene chloride	ND	1.0		µg/L	1	8/11/2011 01:56 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Naphthalene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
o-Xylene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Styrene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Tetrachloroethene	0.84	0.50		µg/L	1	8/11/2011 01:56 PM
Toluene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Trichloroethene	5.7	0.50		µg/L	1	8/11/2011 01:56 PM
Trichlorofluoromethane	1.2	0.50		µg/L	1	8/11/2011 01:56 PM
Vinyl chloride	ND	0.50		µg/L	1	8/11/2011 01:56 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	8/11/2011 01:56 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	5	8/8/2011 06:49 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%REC	1	8/11/2011 01:56 PM
Surr: 4-Bromofluorobenzene	94.1	70-130		%REC	5	8/8/2011 06:49 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	8/11/2011 01:56 PM
Surr: Dibromofluoromethane	116	70-130		%REC	5	8/8/2011 06:49 PM
Surr: Toluene-d8	109	70-130		%REC	5	8/8/2011 06:49 PM
Surr: Toluene-d8	106	70-130		%REC	1	8/11/2011 01:56 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-2900
Lab Order:	119289	**Collection Date:**	8/5/2011 11:30:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-009B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate: 8/11/2011		Analyst: **DMP**
1,4-Dioxane	54	0.50		µg/L	2.5	8/11/2011 10:55 PM
Surr: 1,2-Dichlorobenzene-d4	62.4	58-99		%REC	2.5	8/11/2011 10:55 PM
Surr: 2-Fluorobiphenyl	70.9	60-104		%REC	2.5	8/11/2011 10:55 PM
Surr: 4-Terphenyl-d14	110	65-127		%REC	2.5	8/11/2011 10:55 PM
Surr: Nitrobenzene-d5	61.3	50-136		%REC	2.5	8/11/2011 10:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-29
Lab Order:	119289	**Collection Date:**	8/5/2011 11:45:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-010A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,1,2-Trichloroethane	0.76	0.50		µg/L	1	8/11/2011 02:16 PM
1,1-Dichloroethane	3.6	0.50		µg/L	1	8/11/2011 02:16 PM
1,1-Dichloroethene	330	2.5		µg/L	5	8/10/2011 11:46 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,2-Dichloroethane	0.55	0.50		µg/L	1	8/11/2011 02:16 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Benzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Bromobenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Bromoform	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Bromomethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Chlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Chloroethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Chloroform	0.63	0.50		µg/L	1	8/11/2011 02:16 PM
Chloromethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
cis-1,2-Dichloroethene	0.61	0.50		µg/L	1	8/11/2011 02:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-29
Lab Order:	119289	**Collection Date:**	8/5/2011 11:45:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-010A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Dibromomethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Ethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
m,p-Xylene	ND	1.0		µg/L	1	8/11/2011 02:16 PM
Methylene chloride	ND	1.0		µg/L	1	8/11/2011 02:16 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Naphthalene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
o-Xylene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Styrene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Tetrachloroethene	0.87	0.50		µg/L	1	8/11/2011 02:16 PM
Toluene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Trichloroethene	5.6	0.50		µg/L	1	8/11/2011 02:16 PM
Trichlorofluoromethane	1.2	0.50		µg/L	1	8/11/2011 02:16 PM
Vinyl chloride	ND	0.50		µg/L	1	8/11/2011 02:16 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	8/11/2011 02:16 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	5	8/10/2011 11:46 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%REC	1	8/11/2011 02:16 PM
Surr: 4-Bromofluorobenzene	92.9	70-130		%REC	5	8/10/2011 11:46 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	8/11/2011 02:16 PM
Surr: Dibromofluoromethane	113	70-130		%REC	5	8/10/2011 11:46 PM
Surr: Toluene-d8	108	70-130		%REC	5	8/10/2011 11:46 PM
Surr: Toluene-d8	106	70-130		%REC	1	8/11/2011 02:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-29
Lab Order:	119289	**Collection Date:**	8/5/2011 11:45:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-010B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate:	8/11/2011	Analyst: **DMP**
1,4-Dioxane	45	0.50		µg/L	2.5	8/11/2011 11:24 PM
Surr: 1,2-Dichlorobenzene-d4	73.9	58-99		%REC	2.5	8/11/2011 11:24 PM
Surr: 2-Fluorobiphenyl	76.6	60-104		%REC	2.5	8/11/2011 11:24 PM
Surr: 4-Terphenyl-d14	106	65-127		%REC	2.5	8/11/2011 11:24 PM
Surr: Nitrobenzene-d5	65.7	50-136		%REC	2.5	8/11/2011 11:24 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30A
Lab Order:	119289	**Collection Date:**	8/5/2011 1:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-011A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,1-Dichloroethene	0.93	0.50		µg/L	1	8/10/2011 07:09 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Benzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Bromobenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Bromoform	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Bromomethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Chlorobenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Chloroethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Chloroform	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Chloromethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30A
Lab Order:	119289	**Collection Date:**	8/5/2011 1:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-011A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110810A QC Batch: A11VW135 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Dibromomethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Ethylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
m,p-Xylene	ND	1.0		µg/L	1	8/10/2011 07:09 PM
Methylene chloride	ND	1.0		µg/L	1	8/10/2011 07:09 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Naphthalene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
o-Xylene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Styrene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Toluene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Trichloroethene	0.50	0.50		µg/L	1	8/10/2011 07:09 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Vinyl chloride	ND	0.50		µg/L	1	8/10/2011 07:09 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	8/10/2011 07:09 PM
Surr: 4-Bromofluorobenzene	94.1	70-130		%REC	1	8/10/2011 07:09 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	8/10/2011 07:09 PM
Surr: Toluene-d8	108	70-130		%REC	1	8/10/2011 07:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-3000B
Lab Order:	119289	**Collection Date:**	8/5/2011 2:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-012A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,1-Dichloroethene	19	0.50		µg/L	1	8/11/2011 02:36 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Benzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Bromobenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Bromoform	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Bromomethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Chlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Chloroethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Chloroform	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Chloromethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
cis-1,2-Dichloroethene	5.6	0.50		µg/L	1	8/11/2011 02:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-3000B
Lab Order:	119289	**Collection Date:**	8/5/2011 2:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-012A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Dibromomethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Ethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
m,p-Xylene	ND	1.0		µg/L	1	8/11/2011 02:36 PM
Methylene chloride	ND	1.0		µg/L	1	8/11/2011 02:36 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Naphthalene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
o-Xylene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Styrene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Toluene	4.7	0.50		µg/L	1	8/11/2011 02:36 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Trichloroethene	87	0.50		µg/L	1	8/11/2011 02:36 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Vinyl chloride	ND	0.50		µg/L	1	8/11/2011 02:36 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	8/11/2011 02:36 PM
Surr: 4-Bromofluorobenzene	93.5	70-130		%REC	1	8/11/2011 02:36 PM
Surr: Dibromofluoromethane	115	70-130		%REC	1	8/11/2011 02:36 PM
Surr: Toluene-d8	104	70-130		%REC	1	8/11/2011 02:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-3000B
Lab Order:	119289	**Collection Date:**	8/5/2011 2:00:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-012B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate:	8/11/2011	Analyst: **DMP**
1,4-Dioxane	ND	0.20		µg/L	1	8/11/2011 09:27 PM
Surr: 1,2-Dichlorobenzene-d4	60.2	58-99		%REC	1	8/11/2011 09:27 PM
Surr: 2-Fluorobiphenyl	80.8	60-104		%REC	1	8/11/2011 09:27 PM
Surr: 4-Terphenyl-d14	110	65-127		%REC	1	8/11/2011 09:27 PM
Surr: Nitrobenzene-d5	69.7	50-136		%REC	1	8/11/2011 09:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30B
Lab Order:	119289	**Collection Date:**	8/5/2011 2:25:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-013A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,1-Dichloroethene	18	0.50		µg/L	1	8/11/2011 02:55 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Benzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Bromobenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Bromoform	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Bromomethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Chlorobenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Chloroethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Chloroform	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Chloromethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
cis-1,2-Dichloroethene	5.6	0.50		µg/L	1	8/11/2011 02:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30B
Lab Order:	119289	**Collection Date:**	8/5/2011 2:25:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-013A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110811A QC Batch: A11VW136 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Dibromomethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Ethylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
m,p-Xylene	ND	1.0		µg/L	1	8/11/2011 02:55 PM
Methylene chloride	ND	1.0		µg/L	1	8/11/2011 02:55 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Naphthalene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
o-Xylene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Styrene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Toluene	4.5	0.50		µg/L	1	8/11/2011 02:55 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Trichloroethene	87	0.50		µg/L	1	8/11/2011 02:55 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Vinyl chloride	ND	0.50		µg/L	1	8/11/2011 02:55 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	8/11/2011 02:55 PM
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	8/11/2011 02:55 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	8/11/2011 02:55 PM
Surr: Toluene-d8	106	70-130		%REC	1	8/11/2011 02:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-30B
Lab Order:	119289	**Collection Date:**	8/5/2011 2:25:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	119289-013B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110811A	QC Batch: 74862			PrepDate:	8/11/2011	Analyst: **DMP**
1,4-Dioxane	ND	0.20		µg/L	1	8/11/2011 09:57 PM
Surr: 1,2-Dichlorobenzene-d4	58.1	58-99		%REC	1	8/11/2011 09:57 PM
Surr: 2-Fluorobiphenyl	80.2	60-104		%REC	1	8/11/2011 09:57 PM
Surr: 4-Terphenyl-d14	116	65-127		%REC	1	8/11/2011 09:57 PM
Surr: Nitrobenzene-d5	65.6	50-136		%REC	1	8/11/2011 09:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **LCSW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221873**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.500	0.50	20.00	0	112	70	130				
Benzene	43.130	0.50	40.00	0	108	70	130				
Chlorobenzene	21.250	0.50	20.00	0	106	70	130				
MTBE	22.690	0.50	20.00	0	113	70	130				
Toluene	43.150	0.50	40.00	0	108	70	130				
Trichloroethene	20.730	0.50	20.00	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	26.080		25.00		104	70	130				
Surr: 4-Bromofluorobenzene	23.930		25.00		95.7	70	130				
Surr: Dibromofluoromethane	28.020		25.00		112	70	130				
Surr: Toluene-d8	27.030		25.00		108	70	130				

Sample ID: **A110808MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **ZZZZZZ** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.890	0.50	20.00	0	109	70	130				
Benzene	42.690	0.50	40.00	0	107	70	130				
Chlorobenzene	21.140	0.50	20.00	0	106	70	130				
Toluene	43.050	0.50	40.00	0	108	70	130				
Trichloroethene	20.490	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	26.150		25.00		105	70	130				
Surr: 4-Bromofluorobenzene	24.250		25.00		97.0	70	130				
Surr: Dibromofluoromethane	28.160		25.00		113	70	130				
Surr: Toluene-d8	27.030		25.00		108	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **ZZZZZZ** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.420	0.50	20.00	0	112	70	130	21.89	2.39	20	
Benzene	43.450	0.50	40.00	0	109	70	130	42.69	1.76	20	
Chlorobenzene	21.470	0.50	20.00	0	107	70	130	21.14	1.55	20	
Toluene	43.800	0.50	40.00	0	110	70	130	43.05	1.73	20	
Trichloroethene	21.050	0.50	20.00	0	105	70	130	20.49	2.70	20	
Surr: 1,2-Dichloroethane-d4	26.110		25.00		104	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.020		25.00		96.1	70	130		0	0	
Surr: Dibromofluoromethane	28.190		25.00		113	70	130		0	0	
Surr: Toluene-d8	27.170		25.00		109	70	130		0	0	

Sample ID: **A110808MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **PBW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **PBW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110808MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135664**
Client ID: **PBW** Batch ID: **A11VW133** TestNo: **EPA 8260B** Analysis Date: **8/8/2011** SeqNo: **2221876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	25.880		25.00		104	70	130				
Surr: 4-Bromofluorobenzene	23.380		25.00		93.5	70	130				
Surr: Dibromofluoromethane	28.490		25.00		114	70	130				
Surr: Toluene-d8	27.230		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **LCSW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.400	0.50	20.00	0	112	70	130				
Benzene	42.070	0.50	40.00	0	105	70	130				
Chlorobenzene	20.830	0.50	20.00	0	104	70	130				
MTBE	21.770	0.50	20.00	0	109	70	130				
Toluene	42.270	0.50	40.00	0	106	70	130				
Trichloroethene	20.130	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	25.610		25.00		102	70	130				
Surr: 4-Bromofluorobenzene	24.030		25.00		96.1	70	130				
Surr: Dibromofluoromethane	27.870		25.00		111	70	130				
Surr: Toluene-d8	27.070		25.00		108	70	130				

Sample ID: **A110810MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23.280	0.50	20.00	0	116	70	130				
Benzene	42.940	0.50	40.00	0	107	70	130				
Chlorobenzene	21.250	0.50	20.00	0	106	70	130				
Toluene	43.290	0.50	40.00	0	108	70	130				
Trichloroethene	20.600	0.50	20.00	0	103	70	130				
Surr: 1,2-Dichloroethane-d4	25.670		25.00		103	70	130				
Surr: 4-Bromofluorobenzene	24.070		25.00		96.3	70	130				
Surr: Dibromofluoromethane	27.940		25.00		112	70	130				
Surr: Toluene-d8	27.020		25.00		108	70	130				

Sample ID: **A110810MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.890	0.50	20.00	0	114	70	130	23.28	1.69	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.510	0.50	40.00	0	106	70	130	42.94	1.01	20	
Chlorobenzene	21.040	0.50	20.00	0	105	70	130	21.25	0.993	20	
Toluene	43.040	0.50	40.00	0	108	70	130	43.29	0.579	20	
Trichloroethene	20.660	0.50	20.00	0	103	70	130	20.60	0.291	20	
Surr: 1,2-Dichloroethane-d4	25.410		25.00		102	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.150		25.00		96.6	70	130		0	0	
Surr: Dibromofluoromethane	27.980		25.00		112	70	130		0	0	
Surr: Toluene-d8	26.800		25.00		107	70	130		0	0	

Sample ID: **11289-011AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2222995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	26.620	0.50	20.00	0.9300	128	70	130				
Benzene	46.900	0.50	40.00	0	117	70	130				
Chlorobenzene	22.960	0.50	20.00	0	115	70	130				
Toluene	47.250	0.50	40.00	0	118	70	130				
Trichloroethene	22.960	0.50	20.00	0.5000	112	70	130				
Surr: 1,2-Dichloroethane-d4	25.240		25.00		101	70	130				
Surr: 4-Bromofluorobenzene	24.250		25.00		97.0	70	130				
Surr: Dibromofluoromethane	27.630		25.00		111	70	130				
Surr: Toluene-d8	26.760		25.00		107	70	130				

Sample ID: **11289-011AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	26.230	0.50	20.00	0.9300	127	70	130	26.62	1.48	20	
Benzene	46.320	0.50	40.00	0	116	70	130	46.90	1.24	20	
Chlorobenzene	22.590	0.50	20.00	0	113	70	130	22.96	1.62	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **11289-011AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **ZZZZZZ** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	46.470	0.50	40.00	0	116	70	130	47.25	1.66	20	
Trichloroethene	22.750	0.50	20.00	0.5000	111	70	130	22.96	0.919	20	
Surr: 1,2-Dichloroethane-d4	25.420		25.00		102	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.170		25.00		96.7	70	130		0	0	
Surr: Dibromofluoromethane	27.670		25.00		111	70	130		0	0	
Surr: Toluene-d8	27.060		25.00		108	70	130		0	0	

Sample ID: **A110810MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **PBW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **PBW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110810MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135731**
Client ID: **PBW** Batch ID: **A11VW135** TestNo: **EPA 8260B** Analysis Date: **8/10/2011** SeqNo: **2223218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.550		25.00		98.2	70	130				
Surr: 4-Bromofluorobenzene	23.190		25.00		92.8	70	130				
Surr: Dibromofluoromethane	27.130		25.00		109	70	130				
Surr: Toluene-d8	26.730		25.00		107	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110811LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135768**
Client ID: **LCSW** Batch ID: **A11VW136** TestNo: **EPA 8260B** Analysis Date: **8/11/2011** SeqNo: **2223787**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23.140	0.50	20.00	0	116	70	130				
Benzene	41.580	0.50	40.00	0	104	70	130				
Chlorobenzene	20.510	0.50	20.00	0	103	70	130				
MTBE	21.410	0.50	20.00	0	107	70	130				
Toluene	41.630	0.50	40.00	0	104	70	130				
Trichloroethene	19.920	0.50	20.00	0	99.6	70	130				
Surr: 1,2-Dichloroethane-d4	25.610		25.00		102	70	130				
Surr: 4-Bromofluorobenzene	24.150		25.00		96.6	70	130				
Surr: Dibromofluoromethane	28.050		25.00		112	70	130				
Surr: Toluene-d8	26.780		25.00		107	70	130				

Sample ID: **A110811MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135768**
Client ID: **ZZZZZZ** Batch ID: **A11VW136** TestNo: **EPA 8260B** Analysis Date: **8/11/2011** SeqNo: **2223788**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.500	0.50	20.00	0	112	70	130				
Benzene	41.370	0.50	40.00	0	103	70	130				
Chlorobenzene	20.280	0.50	20.00	0	101	70	130				
Toluene	41.250	0.50	40.00	0	103	70	130				
Trichloroethene	19.770	0.50	20.00	0	98.8	70	130				
Surr: 1,2-Dichloroethane-d4	25.480		25.00		102	70	130				
Surr: 4-Bromofluorobenzene	24.010		25.00		96.0	70	130				
Surr: Dibromofluoromethane	27.810		25.00		111	70	130				
Surr: Toluene-d8	26.630		25.00		107	70	130				

Sample ID: **A110811MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135768**
Client ID: **ZZZZZZ** Batch ID: **A11VW136** TestNo: **EPA 8260B** Analysis Date: **8/11/2011** SeqNo: **2223789**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.690	0.50	20.00	0	113	70	130	22.50	0.841	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110811MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135768**
Client ID: **ZZZZZZ** Batch ID: **A11VW136** TestNo: **EPA 8260B** Analysis Date: **8/11/2011** SeqNo: **2223789**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.200	0.50	40.00	0	106	70	130	41.37	1.99	20	
Chlorobenzene	20.840	0.50	20.00	0	104	70	130	20.28	2.72	20	
Toluene	42.130	0.50	40.00	0	105	70	130	41.25	2.11	20	
Trichloroethene	20.130	0.50	20.00	0	101	70	130	19.77	1.80	20	
Surr: 1,2-Dichloroethane-d4	25.630		25.00		103	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.340		25.00		97.4	70	130		0	0	
Surr: Dibromofluoromethane	27.700		25.00		111	70	130		0	0	
Surr: Toluene-d8	26.710		25.00		107	70	130		0	0	

Sample ID: **A110811MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135768**
Client ID: **PBW** Batch ID: **A11VW136** TestNo: **EPA 8260B** Analysis Date: **8/11/2011** SeqNo: **2223790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110811MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135768**
Client ID: **PBW** Batch ID: **A11VW136** TestNo: **EPA 8260B** Analysis Date: **8/11/2011** SeqNo: **2223790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110811MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135768**
Client ID: **PBW** Batch ID: **A11VW136** TestNo: **EPA 8260B** Analysis Date: **8/11/2011** SeqNo: **2223790**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.000		25.00		104	70	130				
Surr: 4-Bromofluorobenzene	23.620		25.00		94.5	70	130				
Surr: Dibromofluoromethane	28.380		25.00		114	70	130				
Surr: Toluene-d8	26.880		25.00		108	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74862**	SampType: **MBLK**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **8/11/2011**	RunNo: **135790**
Client ID: **PBW**	Batch ID: **74862**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **8/11/2011**	SeqNo: **2224243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.915		1.000		91.5	58	99				
Surr: 2-Fluorobiphenyl	1.011		1.000		101	60	104				
Surr: 4-Terphenyl-d14	1.224		1.000		122	65	127				
Surr: Nitrobenzene-d5	1.093		1.000		109	50	136				

Sample ID: **LCS-74862**	SampType: **LCS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **8/11/2011**	RunNo: **135790**
Client ID: **LCSW**	Batch ID: **74862**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **8/11/2011**	SeqNo: **2224244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.156	0.20	1.000	0	116	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.897		1.000		89.7	58	99				
Surr: 2-Fluorobiphenyl	0.969		1.000		96.9	60	104				
Surr: 4-Terphenyl-d14	1.107		1.000		111	65	127				
Surr: Nitrobenzene-d5	1.071		1.000		107	50	136				

Sample ID: **MB-74862MS**	SampType: **MS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **8/11/2011**	RunNo: **135790**
Client ID: **ZZZZZZ**	Batch ID: **74862**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **8/11/2011**	SeqNo: **2224245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.164	0.20	1.000	0	116	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.873		1.000		87.3	58	99				
Surr: 2-Fluorobiphenyl	0.945		1.000		94.5	60	104				
Surr: 4-Terphenyl-d14	1.155		1.000		116	65	127				
Surr: Nitrobenzene-d5	1.039		1.000		104	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119289
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74862MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/11/2011** RunNo: **135790**
Client ID: **ZZZZZZ** Batch ID: **74862** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **8/11/2011** SeqNo: **2224246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.190	0.20	1.000	0	119	70	130	1.164	2.15	30	
Surr: 1,2-Dichlorobenzene-d4	0.767		1.000		76.7	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.868		1.000		86.8	60	104		0	0	
Surr: 4-Terphenyl-d14	1.017		1.000		102	65	127		0	0	
Surr: Nitrobenzene-d5	0.889		1.000		88.9	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/5/11 PAGE 1 OF 2

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Daniel Mora, Amanda Beam	SAMPLER (PRINTED): Daniel Mora, Amanda Beam

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	LABORATORY INFORMATION / REMARKS
	TB-080411A	8/4/11	1620				X	X				X	2		X		X					ATL
	MW-33		1738		X			X				X	3		X		X					Attn: Rachelle Arada
	↓		↓		X							X		i		X						
	MW-26C		1948		X			X				X	3		X		X					
	↓		↓		X							X		1		X						
~~ARS~~	~~MW-13~~	~~8/5/11~~	~~900~~																			
	RB-080511	8/5/11	1010				X	X				X	3		X		X					
	↓		↓				X					X		1		X						
	MW-20		1232		X			X				X	3		X		X					
	↓		↓		X							X		1		X						
	MW-16		1535		X			X				X	3		X				X			
	↓		↓		X							X		1		X						

Total number of Containers per analysis: 175

Total No. of Containers: 22

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	8/5/11	1540	HFA		8/5/11	1540	ATL
	8/4/11	1637	ATL		8/5/11	1637	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

4
2.6

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/5/2011 PAGE 2 OF 2

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): EJH	SAMPLER (PRINTED): ERIN HUNTER

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	LABORATORY INFORMATION / REMARKS
	MW-28	8/5/2011	0926		X			X				X	3		X		X					
	↓		↓		X							X		1		X						
	MW-31		1032		X			X				X	3		X		X					
	↓		↓		X							X		1		X						
	MW-2400		1130		X			X				X	3		X			X				
	↓		↓		X							X		1		X						
	MW-29		1145		X			X				X	3		X			X				
	↓		↓		X							X		1		X						
	MW-30A		1342		X			X				X	3		X		X					
	↓		↓		X							X		1		X						
	MW-3000B		1400		X			X				X	3		X			X				
	↓		↓		X							X		1		X						
	MW-30B		1425		X			X				X	3		X			X				
	↓		↓		X							X		1		X						
Total number of Containers per analysis:													21	7							Total No. of Containers:	28

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
EJH	8/5/11	1540	HHA	Tori Arada	8/4/11	1540	ATL
Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
[illegible]	8/5/11	1637	ATL	[illegible]	8/5/11	1637	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: Courier/Drop off
Send Results to: Steve NEtto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ATL
Attn: Rachelle Arada

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

Carmen Aguila

From: Amanda Beam [ABeam@HARGIS.COM]
Sent: Monday, August 08, 2011 1:44 PM
To: Carmen Aguila
Cc: Erin Hunter; Steve Netto
Subject: H+A 532.30 samples from Friday

Hi Carmen,

I spoke with Margo earlier about the extra 6 vials turned in from MW-30A last Friday. We would like you to go ahead and analyze all samples turned in for 8260B, using these additional vials as the MS and MSD for the batch. At this time we are not planning to collect a 1,4-dioxane sample from MW-30A. If this should change we will let you know.

Thanks,

Amanda Beam
Hydrogeologist

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, California 92122
ph: 858-455-6500 ext. 145
fax: 858-410-7440
abeam@hargis.com

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E: info400@exova.com
W: www.exova.com

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August 29, 2011

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No: 133089
Purchase Order: 532.30
Project Name: Raytheon Main
Samples Received: Seven (7) Samples
Date Received: 08/02/2011

KC

Analysis	Page
Volatile Organics by EPA 624/8260B	2 - 6
1,4-Dioxane by Modified EPA 8270	7

Michael Shelton
Technical Director

Patricia Metzger
Senior Chemist

This report is to be reproduced in its entirety. All documents and data will be destroyed 7 years past invoice.
All samples will be disposed of 30 days past invoice unless prior arrangements have been made.

EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-21

		Parts Per Billion (µg/L)		
		Detection	Blank	Detection
Compound	Result	Limit	Result	Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	2	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	22	1	ND	1
1,2-Dichloroethane	3	1	ND	1
1,1-Dichloroethylene	1800	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	2	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-21 (continued)

		Parts Per Billion (µg/L)		
		Detection	Blank	Detection
Compound	Result	Limit	Result	Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	4	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	8	1	ND	1
Trichloroethylene	17	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 08-15-11
Date analyzed: 08-15-11

		Sample	Blank
Surrogate	QC Limits	Percent Recovery	Percent Recovery
Dibromofluoromethane	75-125	98	100
1,2-Dichloroethane-d_4	82-121	98	100
Toluene-d_8	87-110	100	99
Bromofluorobenzene	76-113	102	104

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-080211A

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	ND	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-080211A (continued)

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 08-15-11
Date analyzed: 08-15-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	100	100
1,2-Dichloroethane-d_4	82-121	101	100
Toluene-d_8	87-110	99	99
Bromofluorobenzene	76-113	102	104

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Quality Control Summary

Batch ID: 081511WV

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Benzene	ND	50.0	49.2	98	49.7	99	1
Chlorobenzene	ND	50.0	47.0	94	48.1	96	2
1,1-Dichloroethylene	ND	50.0	52.4	105	52.9	106	1
Toluene	ND	50.0	51.0	102	51.7	103	1
Trichloroethylene	ND	50.0	47.4	95	48.0	96	1

Quality Control Limits

Compound	% Recovery	RPD
Benzene	77-127	10
Chlorobenzene	80-116	9
1,1-Dichloroethylene	66-125	11
Toluene	81-118	10
Trichloroethylene	72-119	11

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EXOVA

1,4-Dioxane by Modified EPA 8270
Gas Chromatography/Mass Spectrometry

Sample ID	Parts per Billion (µg/L)
MW-21	430
Method Blank	ND
Detection Limit	1

Date Extracted: 08-09-11
Date Analyzed: 08-25-11

Quality Control Summary

Sample ID: 080911WB

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
1,4-Dioxane	ND	20.0	20.7	104	21.2	106	2

Quality Control Guidelines

Analyte	% Recovery	RPD
1,4-Dioxane	85 - 113	NMT 11

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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/2/11 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
RAYTHEON MAIN	532.30
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Netto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Amanda Blair, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml VOA	1 L. Amber	ANALYSIS REQUESTED 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING Standard TAT	LABORATORY INFORMATION / REMARKS
	TB-080211A	8/02/11	700				X	X				X	2		X		X				X	Exova
	MW-21	8/02/11	910		X			X				X	3		X					X	X	
	MW-21	8/02/11	910		X							X		1		X					X	
	★08-02-11 A/S: (2) VIALS REC'D AS TB-080211																					

Total number of Containers per analysis: 6 1

Total No. of Containers: 7

Relinquished by:	Date	Received by:	Date
Amanda Blair	8/2/11		08-02-11
	Time	EXOVA	Time
Company	525	Company	15:25
Relinquished by:	Date	Received by: 133089	Date
	Time		Time
Company		Company	

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☑ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☑ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

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W: www.exova.com

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Certificate of Analysis

August 29, 2011

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No: 133206
Purchase Order: 532.18
Project Name: Raytheon Main
Samples Received: Eleven (11) Samples
Date Received: 08/05/2011

KC

Analysis	Page
Volatile Organics by EPA 624/8260B	2 - 8
1,4-Dioxane by Modified EPA 8270	9

Michael Shelton
Technical Director

Patricia Metzger
Senior Chemist

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-29

		Parts Per Billion (µg/L)		
Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	2	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	270	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-29 (continued)

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	4	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 08-15-11
Date analyzed: 08-16-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	98	100
1,2-Dichloroethane-d_4	82-121	99	100
Toluene-d_8	87-110	100	99
Bromofluorobenzene	76-113	102	104

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-30B

		Parts Per Billion (µg/L)		
		Detection	Blank	Detection
Compound	Result	Limit	Result	Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	10	1	ND	1
cis-1,2-Dichloroethylene	3	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	2	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-30B (continued)

		Parts Per Billion (µg/L)		
Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	3	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	73	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 08-15-11
Date analyzed: 08-16-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	99	100
1,2-Dichloroethane-d_4	82-121	99	100
Toluene-d_8	87-110	100	99
Bromofluorobenzene	76-113	104	104

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-080511

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	ND	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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Exova

Volatile Organics by EPA 624/8260B

Sample: TB-080511 (continued)

		Parts Per Billion (µg/L)		
		Detection	Blank	Detection
Compound	Result	Limit	Result	Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 08-15-11
Date analyzed: 08-16-11

		Sample	Blank
Surrogate	QC Limits	Percent Recovery	Percent Recovery
Dibromofluoromethane	75-125	100	100
1,2-Dichloroethane-d_4	82-121	101	100
Toluene-d_8	87-110	101	99
Bromofluorobenzene	76-113	101	104

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EXOVA

Quality Control Summary

Batch ID: 081511WV

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Benzene	ND	50.0	49.2	98	49.7	99	1
Chlorobenzene	ND	50.0	47.0	94	48.1	96	2
1,1-Dichloroethylene	ND	50.0	52.4	105	52.9	106	1
Toluene	ND	50.0	51.0	102	51.7	103	1
Trichloroethylene	ND	50.0	47.4	95	48.0	96	1

Quality Control Limits

Compound	% Recovery	RPD
Benzene	77-127	10
Chlorobenzene	80-116	9
1,1-Dichloroethylene	66-125	11
Toluene	81-118	10
Trichloroethylene	72-119	11

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EXOVA

1,4-Dioxane by Modified EPA 8270
Gas Chromatography/Mass Spectrometry

Sample ID	Parts per Billion (µg/L)
MW-29	82
MW-30B	ND
Method Blank	ND
Detection Limit	1

Date Extracted: 08-09-11
Date Analyzed: 08-25-11

Quality Control Summary

Sample ID: 080911WB

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
1,4-Dioxane	ND	20.0	20.7	104	21.2	106	2

Quality Control Guidelines

Analyte	% Recovery	RPD
1,4-Dioxane	85 - 113	NMT 11

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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/05/2011 PAGE 1 OF 1

PROJECT NAME	RAYTHEON MAIN
PROJECT No./TASK No.	532.18
PROJECT MANAGER	CHRIS ROSS
Phone No.	858.455.6500
QA MANAGER	STEVE METTO
Fax No.	858.455.6500
SAMPLER (SIGNATURE)	EJH
SAMPLER (PRINTED)	ERIN HUNTER

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 mL VOA	1 L Amber	ANALYSIS REQUESTED: 8260B VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000
	TB-080511	8/5/11	0700				X	X				X	3		X		X		
	MW-29		1145		X			X				X	3		X			X	
	*				X							X		1		X			
	MW-30B		1425		X			X				X	3		X			X	
	**				X							X		1		X			
	08-05-11 AKS REC'D AS																		
	* MW-29																		
	** MW-30B																		

Total number of Containers per analysis: 9 | 2

Total No. of Containers: 11

SPECIAL HANDLING: STANDARD TAT

LABORATORY INFORMATION: EXOVA

REMARKS

	Date	Time		Date	Time
Relinquished by: EJH	8/5/11	1630	Received by: HtA	8/5/11	1630
Company: HtA			Company: HtA		
Relinquished by: HtA	8/5/11	1655	Received by:	8-05-11	21:55
Company: HtA			Company: EXOVA		

133206

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☑ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☑ conforms to COC document

Shipment Method: DROP-OFF

Send Results to: STEVE METTO

☐ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM ANALYTICAL RESULTS

July 13, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118780

RE: RAYTHEON FULLERTON-MONTHLY, 532.

Attention: Steve Netto

Enclosed are the results for sample(s) received on July 02, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON FULLERTON-MONTHLY, 532.1
Lab Order: 118780

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Analytical Comments for EPA 8270C(M)

Samples 118780-002B and 118780-004B, surrogate recovery biased high possibly due to matrix interferences.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** TB-07022011
Lab Order: 118780 **Collection Date:** 7/2/2011 7:30:00 AM
Project: RAYTHEON FULLERTON-MONTHLY, 53 **Matrix:** LAB H2O
Lab ID: 118780-001A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS2_110705A	QC Batch: Q11VW125			PrepDate:		Analyst: **SLL**
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
2-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
4-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Benzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Bromobenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Bromodichloromethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Bromoform	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Bromomethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Carbon tetrachloride	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Chlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Chloroethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Chloroform	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Chloromethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 11:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-07022011
Lab Order:	118780	**Collection Date:**	7/2/2011 7:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	LAB H2O
Lab ID:	118780-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110705A QC Batch: Q11VW125 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Dibromochloromethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Dibromomethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Ethylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Isopropylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
m,p-Xylene	ND	1.0		µg/L	1	7/5/2011 11:26 AM
Methylene chloride	ND	1.0		µg/L	1	7/5/2011 11:26 AM
n-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
n-Propylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Naphthalene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
o-Xylene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
sec-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Styrene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
tert-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Tetrachloroethene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Toluene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Trichloroethene	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Vinyl chloride	ND	0.50		µg/L	1	7/5/2011 11:26 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	1	7/5/2011 11:26 AM
Surr: 4-Bromofluorobenzene	92.9	70-130		%REC	1	7/5/2011 11:26 AM
Surr: Dibromofluoromethane	109	70-130		%REC	1	7/5/2011 11:26 AM
Surr: Toluene-d8	87.8	70-130		%REC	1	7/5/2011 11:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118780	**Collection Date:**	7/2/2011 10:00:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110705A QC Batch: Q11VW125 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,1-Dichloroethane	0.73	0.50		µg/L	1	7/5/2011 11:47 AM
1,1-Dichloroethene	87	0.50		µg/L	1	7/5/2011 11:47 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
2-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
4-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Benzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Bromobenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Bromodichloromethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Bromoform	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Bromomethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Carbon tetrachloride	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Chlorobenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Chloroethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Chloroform	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Chloromethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 11:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118780	**Collection Date:**	7/2/2011 10:00:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110705A QC Batch: Q11VW125 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Dibromochloromethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Dibromomethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Ethylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Isopropylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
m,p-Xylene	ND	1.0		µg/L	1	7/5/2011 11:47 AM
Methylene chloride	ND	1.0		µg/L	1	7/5/2011 11:47 AM
n-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
n-Propylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Naphthalene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
o-Xylene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
sec-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Styrene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
tert-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Tetrachloroethene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Toluene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Trichloroethene	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Vinyl chloride	ND	0.50		µg/L	1	7/5/2011 11:47 AM
Surr: 1,2-Dichloroethane-d4	113	70-130		%REC	1	7/5/2011 11:47 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%REC	1	7/5/2011 11:47 AM
Surr: Dibromofluoromethane	110	70-130		%REC	1	7/5/2011 11:47 AM
Surr: Toluene-d8	89.2	70-130		%REC	1	7/5/2011 11:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118780	**Collection Date:**	7/2/2011 10:00:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110708A	QC Batch: 74147			PrepDate:	7/8/2011	Analyst: **JSD**
1,4-Dioxane	18	2.0		µg/L	10	7/12/2011 12:48 PM
Surr: 1,2-Dichlorobenzene-d4	85.7	58-99		%REC	10	7/12/2011 12:48 PM
Surr: 2-Fluorobiphenyl	85.9	60-104		%REC	10	7/12/2011 12:48 PM
Surr: 4-Terphenyl-d14	136	65-127	S	%REC	10	7/12/2011 12:48 PM
Surr: Nitrobenzene-d5	60.0	50-136		%REC	10	7/12/2011 12:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118780	**Collection Date:**	7/2/2011 10:00:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110705A	QC Batch: 74059			PrepDate: 7/5/2011		Analyst: **PT**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	7/5/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118780	**Collection Date:**	7/2/2011 10:00:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110707A	QC Batch: 74121			PrepDate: 7/6/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	650	10		mg/L	1	7/6/2011 09:09 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	118780	**Collection Date:**	7/2/2011 10:00:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110711A	QC Batch: R134865			PrepDate:		Analyst: **PT**
Bromide	0.64	0.050		mg/L	1	7/11/2011 02:21 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	118780	**Collection Date:**	7/2/2011 9:10:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110705A	QC Batch: 74059			PrepDate: 7/5/2011	Analyst: **PT**	
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	7/5/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** POX
Lab Order: 118780 **Collection Date:** 7/2/2011 9:15:00 AM
Project: RAYTHEON FULLERTON-MONTHLY, 53 **Matrix:** GROUNDWATER
Lab ID: 118780-004A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110705A	QC Batch: Q11VW125			PrepDate:		Analyst: **SLL**
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,1-Dichloroethane	0.58	0.50		µg/L	1	7/5/2011 12:49 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
2-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
4-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Benzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Bromobenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Bromodichloromethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Bromoform	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Bromomethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Carbon tetrachloride	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Chlorobenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Chloroethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Chloroform	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Chloromethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 12:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** POX
Lab Order: 118780 **Collection Date:** 7/2/2011 9:15:00 AM
Project: RAYTHEON FULLERTON-MONTHLY, 53 **Matrix:** GROUNDWATER
Lab ID: 118780-004A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
		EPA 8260B				
RunID: MS2_110705A	QC Batch: Q11VW125			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Dibromochloromethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Dibromomethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Ethylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Isopropylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
m,p-Xylene	ND	1.0		µg/L	1	7/5/2011 12:49 PM
Methylene chloride	ND	1.0		µg/L	1	7/5/2011 12:49 PM
n-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
n-Propylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Naphthalene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
o-Xylene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
sec-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Styrene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
tert-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Tetrachloroethene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Toluene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Trichloroethene	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Vinyl chloride	ND	0.50		µg/L	1	7/5/2011 12:49 PM
Surr: 1,2-Dichloroethane-d4	113	70-130		%REC	1	7/5/2011 12:49 PM
Surr: 4-Bromofluorobenzene	89.9	70-130		%REC	1	7/5/2011 12:49 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	7/5/2011 12:49 PM
Surr: Toluene-d8	88.8	70-130		%REC	1	7/5/2011 12:49 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118780	**Collection Date:**	7/2/2011 9:15:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110708A	QC Batch: 74147			PrepDate:	7/8/2011	Analyst: **JSD**
1,4-Dioxane	0.46	0.20		µg/L	1	7/8/2011 10:07 PM
Surr: 1,2-Dichlorobenzene-d4	83.3	58-99		%REC	1	7/8/2011 10:07 PM
Surr: 2-Fluorobiphenyl	92.2	60-104		%REC	1	7/8/2011 10:07 PM
Surr: 4-Terphenyl-d14	133	65-127	S	%REC	1	7/8/2011 10:07 PM
Surr: Nitrobenzene-d5	71.5	50-136		%REC	1	7/8/2011 10:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118780	**Collection Date:**	7/2/2011 9:15:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110707A	QC Batch: 74121			PrepDate: 7/6/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	630	10		mg/L	1	7/6/2011 09:09 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	118780	**Collection Date:**	7/2/2011 9:15:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110711A	QC Batch: R134865			PrepDate:		Analyst: **PT**
Bromide	0.65	0.050		mg/L	1	7/11/2011 02:32 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** CBT
Lab Order: 118780 **Collection Date:** 7/2/2011 9:25:00 AM
Project: RAYTHEON FULLERTON-MONTHLY, 53 **Matrix:** GROUNDWATER
Lab ID: 118780-005A

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110705A QC Batch: Q11VW125 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,1-Dichloroethane	0.71	0.50		µg/L	1	7/5/2011 01:09 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
2-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
4-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Benzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Bromobenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Bromodichloromethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Bromoform	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Bromomethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Carbon tetrachloride	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Chlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Chloroethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Chloroform	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Chloromethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 01:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	118780	**Collection Date:**	7/2/2011 9:25:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110705A QC Batch: Q11VW125 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Dibromochloromethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Dibromomethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Ethylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Isopropylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
m,p-Xylene	ND	1.0		µg/L	1	7/5/2011 01:09 PM
Methylene chloride	ND	1.0		µg/L	1	7/5/2011 01:09 PM
n-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
n-Propylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Naphthalene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
o-Xylene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
sec-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Styrene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
tert-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Tetrachloroethene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Toluene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Trichloroethene	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Vinyl chloride	ND	0.50		µg/L	1	7/5/2011 01:09 PM
Surr: 1,2-Dichloroethane-d4	116	70-130		%REC	1	7/5/2011 01:09 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%REC	1	7/5/2011 01:09 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	7/5/2011 01:09 PM
Surr: Toluene-d8	92.3	70-130		%REC	1	7/5/2011 01:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118780	**Collection Date:**	7/2/2011 9:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS2_110705A QC Batch: Q11VW125 PrepDate: Analyst: **SLL**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,1-Dichloroethane	0.80	0.50		µg/L	1	7/5/2011 01:30 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
2-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
4-Chlorotoluene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Benzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Bromobenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Bromodichloromethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Bromoform	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Bromomethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Carbon tetrachloride	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Chlorobenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Chloroethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Chloroform	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Chloromethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 01:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118780	**Collection Date:**	7/2/2011 9:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS2_110705A	QC Batch: Q11VW125			PrepDate:		Analyst: **SLL**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Dibromochloromethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Dibromomethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Ethylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Isopropylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
m,p-Xylene	ND	1.0		µg/L	1	7/5/2011 01:30 PM
Methylene chloride	ND	1.0		µg/L	1	7/5/2011 01:30 PM
n-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
n-Propylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Naphthalene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
o-Xylene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
sec-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Styrene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
tert-Butylbenzene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Tetrachloroethene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Toluene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Trichloroethene	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Vinyl chloride	ND	0.50		µg/L	1	7/5/2011 01:30 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%REC	1	7/5/2011 01:30 PM
Surr: 4-Bromofluorobenzene	91.7	70-130		%REC	1	7/5/2011 01:30 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	7/5/2011 01:30 PM
Surr: Toluene-d8	89.1	70-130		%REC	1	7/5/2011 01:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118780	**Collection Date:**	7/2/2011 9:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110707A	QC Batch: 74121			PrepDate: 7/6/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	640	10		mg/L	1	7/6/2011 09:09 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	118780	**Collection Date:**	7/2/2011 9:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	118780-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110711A	QC Batch: R134865			PrepDate:		Analyst: **PT**
Bromide	0.64	0.050		mg/L	1	7/11/2011 02:44 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **118775-002A-DUP** SampType: **DUP** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **7/6/2011** RunNo: **134774**
Client ID: **ZZZZZZ** Batch ID: **74121** TestNo: **SM2540C** Analysis Date: **7/6/2011** SeqNo: **2204830**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	2221.250	12						2220	0.0563	10	

Sample ID: **LCS-74121** SampType: **LCS** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **7/6/2011** RunNo: **134774**
Client ID: **LCSW** Batch ID: **74121** TestNo: **SM2540C** Analysis Date: **7/6/2011** SeqNo: **2204834**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	982.000	10	970.0	0	101	80	120				

Sample ID: **MB-74121** SampType: **MBLK** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **7/6/2011** RunNo: **134774**
Client ID: **PBW** Batch ID: **74121** TestNo: **SM2540C** Analysis Date: **7/6/2011** SeqNo: **2204835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **118780-002C-DUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **7/5/2011** RunNo: **134660**
Client ID: **EW-02** Batch ID: **74059** TestNo: **SM2540D** Analysis Date: **7/5/2011** SeqNo: **2202273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-74059** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **7/5/2011** RunNo: **134660**
Client ID: **LCSW** Batch ID: **74059** TestNo: **SM2540D** Analysis Date: **7/5/2011** SeqNo: **2202275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	97.000	10	96.60	0	100	80	120				

Sample ID: **MB-74059** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **7/5/2011** RunNo: **134660**
Client ID: **PBW** Batch ID: **74059** TestNo: **SM2540D** Analysis Date: **7/5/2011** SeqNo: **2202276**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R134865**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **134865**
Client ID: **PBW**	Batch ID: **R134865**	TestNo: **EPA 300.0**		Analysis Date: **7/11/2011**	SeqNo: **2206511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R134865**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **134865**
Client ID: **LCSW**	Batch ID: **R134865**	TestNo: **EPA 300.0**		Analysis Date: **7/11/2011**	SeqNo: **2206512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.036	0.050	1.000	0	104	90	110				

Sample ID: **118822-002B-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **134865**
Client ID: **ZZZZZZ**	Batch ID: **R134865**	TestNo: **EPA 300.0**		Analysis Date: **7/11/2011**	SeqNo: **2206517**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	2.0						0	0	20	

Sample ID: **118822-002B-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **134865**
Client ID: **ZZZZZZ**	Batch ID: **R134865**	TestNo: **EPA 300.0**		Analysis Date: **7/11/2011**	SeqNo: **2206518**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	107.572	2.0	100.0	0	108	80	120				

Sample ID: **118822-002B-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **134865**
Client ID: **ZZZZZZ**	Batch ID: **R134865**	TestNo: **EPA 300.0**		Analysis Date: **7/11/2011**	SeqNo: **2206519**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	108.668	2.0	100.0	0	109	80	120	107.6	1.01	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110705LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134662**
Client ID: **LCSW** Batch ID: **Q11VW125** TestNo: **EPA 8260B** Analysis Date: **7/5/2011** SeqNo: **2204456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.180	0.50	20.00	0	95.9	70	130				
Benzene	38.650	0.50	40.00	0	96.6	70	130				
Chlorobenzene	20.220	0.50	20.00	0	101	70	130				
MTBE	19.160	0.50	20.00	0	95.8	70	130				
Toluene	40.820	0.50	40.00	0	102	70	130				
Trichloroethene	19.820	0.50	20.00	0	99.1	70	130				
Surr: 1,2-Dichloroethane-d4	22.310		25.00		89.2	70	130				
Surr: 4-Bromofluorobenzene	24.270		25.00		97.1	70	130				
Surr: Dibromofluoromethane	23.600		25.00		94.4	70	130				
Surr: Toluene-d8	23.820		25.00		95.3	70	130				

Sample ID: **Q110705MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134662**
Client ID: **ZZZZZZ** Batch ID: **Q11VW125** TestNo: **EPA 8260B** Analysis Date: **7/5/2011** SeqNo: **2204457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.700	0.50	20.00	0	78.5	70	130				
Benzene	36.730	0.50	40.00	0	91.8	70	130				
Chlorobenzene	19.630	0.50	20.00	0	98.2	70	130				
Toluene	38.290	0.50	40.00	0	95.7	70	130				
Trichloroethene	17.410	0.50	20.00	0	87.1	70	130				
Surr: 1,2-Dichloroethane-d4	22.190		25.00		88.8	70	130				
Surr: 4-Bromofluorobenzene	23.880		25.00		95.5	70	130				
Surr: Dibromofluoromethane	22.870		25.00		91.5	70	130				
Surr: Toluene-d8	23.670		25.00		94.7	70	130				

Sample ID: **Q110705MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134662**
Client ID: **ZZZZZZ** Batch ID: **Q11VW125** TestNo: **EPA 8260B** Analysis Date: **7/5/2011** SeqNo: **2204458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.070	0.50	20.00	0	90.4	70	130	15.70	14.0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110705MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134662**
Client ID: **ZZZZZZ** Batch ID: **Q11VW125** TestNo: **EPA 8260B** Analysis Date: **7/5/2011** SeqNo: **2204458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.510	0.50	40.00	0	96.3	70	130	36.73	4.73	20	
Chlorobenzene	19.970	0.50	20.00	0	99.8	70	130	19.63	1.72	20	
Toluene	40.100	0.50	40.00	0	100	70	130	38.29	4.62	20	
Trichloroethene	19.460	0.50	20.00	0	97.3	70	130	17.41	11.1	20	
Surr: 1,2-Dichloroethane-d4	21.770		25.00		87.1	70	130		0	0	
Surr: 4-Bromofluorobenzene	23.610		25.00		94.4	70	130		0	0	
Surr: Dibromofluoromethane	23.170		25.00		92.7	70	130		0	0	
Surr: Toluene-d8	23.630		25.00		94.5	70	130		0	0	

Sample ID: **Q110705MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134662**
Client ID: **PBW** Batch ID: **Q11VW125** TestNo: **EPA 8260B** Analysis Date: **7/5/2011** SeqNo: **2204459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110705MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134662**
Client ID: **PBW** Batch ID: **Q11VW125** TestNo: **EPA 8260B** Analysis Date: **7/5/2011** SeqNo: **2204459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110705MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **134662**
Client ID: **PBW** Batch ID: **Q11VW125** TestNo: **EPA 8260B** Analysis Date: **7/5/2011** SeqNo: **2204459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	27.560		25.00		110	70	130				
Surr: 4-Bromofluorobenzene	25.380		25.00		102	70	130				
Surr: Dibromofluoromethane	28.130		25.00		113	70	130				
Surr: Toluene-d8	24.680		25.00		98.7	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74147** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **7/8/2011** RunNo: **134878**
Client ID: **PBW** Batch ID: **74147** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **7/8/2011** SeqNo: **2206988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.718		1.000		71.8	58	99				
Surr: 2-Fluorobiphenyl	0.766		1.000		76.6	60	104				
Surr: 4-Terphenyl-d14	1.116		1.000		112	65	127				
Surr: Nitrobenzene-d5	0.624		1.000		62.4	50	136				

Sample ID: **LCS-74147** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **7/8/2011** RunNo: **134878**
Client ID: **LCSW** Batch ID: **74147** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **7/8/2011** SeqNo: **2206989**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.021	0.20	1.000	0	102	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.766		1.000		76.6	58	99				
Surr: 2-Fluorobiphenyl	0.799		1.000		79.9	60	104				
Surr: 4-Terphenyl-d14	1.119		1.000		112	65	127				
Surr: Nitrobenzene-d5	0.697		1.000		69.7	50	136				

Sample ID: **MB-74147MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **7/8/2011** RunNo: **134878**
Client ID: **ZZZZZZ** Batch ID: **74147** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **7/8/2011** SeqNo: **2206990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.011	0.20	1.000	0	101	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.790		1.000		79.0	58	99				
Surr: 2-Fluorobiphenyl	0.825		1.000		82.5	60	104				
Surr: 4-Terphenyl-d14	1.202		1.000		120	65	127				
Surr: Nitrobenzene-d5	0.704		1.000		70.4	50	136				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 118780
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74147MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **7/8/2011** RunNo: **134878**
Client ID: **ZZZZZZ** Batch ID: **74147** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **7/8/2011** SeqNo: **2206991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.019	0.20	1.000	0	102	70	130	1.011	0.762	30	
Surr: 1,2-Dichlorobenzene-d4	0.784		1.000		78.4	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.811		1.000		81.1	60	104		0	0	
Surr: 4-Terphenyl-d14	1.219		1.000		122	65	127		0	0	
Surr: Nitrobenzene-d5	0.704		1.000		70.4	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Client: Advanced Technology Laboratories Inc
Job No.: 132371

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

Sample Preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
118780-002F / EW-02	ND
118780-004E / POX	6.5
118780-006D / CEFF	4.1
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 07-15-11

Calibration Summary

Sample ID: Laboratory Control Standard (50.0 ppb Second Source Standard)

Date Analyzed	Result	% Rec	% Rec Limits
07-15-11	51.1	102	80 - 120

Standard Curve (n=6) $r^2 \geq 0.999$

Quality Control Summary

Sample ID: Batch QC

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	ND	1000	920	92	880	88	4
QC Guidelines				75 - 125		75 - 125	10

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 *FAX: (562) 989-4040*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, California 90670

TEL: 562 948-2225
FAX: 562 948-5850
Acct #:

Field Sampler: Marcos Rodriguez

02-Jul-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 317.0		
118780-002F / EW-02	Groundwater	7/2/2011 10:00:00 AM	4OZP	1		
118780-004E / POX	Groundwater	7/2/2011 9:15:00 AM	4OZP	1		
118780-006D / CEFF	Groundwater	7/2/2011 9:30:00 AM	4OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM. (RR)
Please use PO#: SC06540 Please fax results by: NORMAL TAT
ANALYZE THE SAMPLES FOR BROMATE BY EPA 317
PLEASE SEND REPORT TO RACHELLE ARADA

		Date/Time			Date/Time
Relinquished by:		7/2/11	**Received by:**		7/5/11 940
Relinquished by:		7/5/11 1253	**Received by:**		07-05-11

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 7/2/2011 PAGE 1 OF 1

PROJECT NAME	RAYTHEON FULLERTON-MONTHLY
PROJECT No./TASK No.	532.15
PROJECT MANAGER	CHRIS ROSS
Phone No.	858-455-6500
QA MANAGER	STEVE NETTO
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	MARCOS RODRIGUEZ

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED: VOCs by R260B	1,4-Dioxane by 8270 SIM	Bromate by 317	TDS 160.1	TSS 160.2	Bromide by 300	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000
	TB-07022011	7/2/2011	07:30				X	X				X	2					X						X			
	EW-02		10:00		X			X				X	3	2	2		i	X	X	X	X	X	X		X		
	PF		09:10		X							X			1							X			X		
	POX		09:15		X			X				X	3	2	1		i	X	X	X	X		X	X			
	CBT		09:25		X			X				X	3					X						X			
	CEFF		09:30		X			X				X	3	2	1			X		X	X		X	X			

Total number of Containers per analysis: 14 6 5 2

Total No. of Containers: 27

LABORATORY INFORMATION
ATL
SIGNAL HILL
562-989-4045

REMARKS
Please include
mrodriguez@hargis.com
in lab report
distribution list
set 1,4-DIoxane
MDL to 1.0 ppm

Relinquished by:	Date	Time	Received by:	Date	Time
HTA	7/2/11	13:45			
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
			FEDEX	7/2/11	
Company			ATL Company		1945

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☑ received good condition/cold (1.8 °C)
- ☐ custody seals secure
- ☐ conforms to COC document

Shipment Method: DELIVER

Send Results to: STEVE NETTO

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

August 09, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119216

RE: RAYTHEON FULLERTON-MONTHLY, 532.

Attention: Steve Netto

Enclosed are the results for sample(s) received on August 01, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON FULLERTON-MONTHLY, 532.1
Lab Order: 119216

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Analytical Comments for EPA 8270C(M)

Samples 119216-002B and 119216-004B, surrogate recovery biased high possibly due to matrix interferences.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** TB-080111
Lab Order: 119216 **Collection Date:** 8/1/2011 9:30:00 AM
Project: RAYTHEON FULLERTON-MONTHLY, 53 **Matrix:** LAB H2O
Lab ID: 119216-001A

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Benzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Bromobenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Bromoform	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Bromomethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Chlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Chloroethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Chloroform	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Chloromethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 05:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-080111
Lab Order:	119216	**Collection Date:**	8/1/2011 9:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	LAB H2O
Lab ID:	119216-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Dibromomethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Ethylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
m,p-Xylene	ND	1.0		µg/L	1	8/2/2011 05:20 PM
Methylene chloride	ND	1.0		µg/L	1	8/2/2011 05:20 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Naphthalene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
o-Xylene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Styrene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Toluene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Trichloroethene	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Vinyl chloride	ND	0.50		µg/L	1	8/2/2011 05:20 PM
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	1	8/2/2011 05:20 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%REC	1	8/2/2011 05:20 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	8/2/2011 05:20 PM
Surr: Toluene-d8	109	70-130		%REC	1	8/2/2011 05:20 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119216	**Collection Date:**	8/1/2011 1:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,1-Dichloroethane	0.91	0.50		µg/L	1	8/2/2011 06:43 PM
1,1-Dichloroethene	75	2.5		µg/L	5	8/3/2011 06:09 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Benzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Bromobenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Bromoform	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Bromomethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Chlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Chloroethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Chloroform	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Chloromethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 06:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119216	**Collection Date:**	8/1/2011 1:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Dibromomethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Ethylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
m,p-Xylene	ND	1.0		µg/L	1	8/2/2011 06:43 PM
Methylene chloride	ND	1.0		µg/L	1	8/2/2011 06:43 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Naphthalene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
o-Xylene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Styrene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Toluene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Trichloroethene	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Vinyl chloride	ND	0.50		µg/L	1	8/2/2011 06:43 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	8/2/2011 06:43 PM
Surr: 1,2-Dichloroethane-d4	78.2	70-130		%REC	5	8/3/2011 06:09 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	8/2/2011 06:43 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%REC	5	8/3/2011 06:09 PM
Surr: Dibromofluoromethane	117	70-130		%REC	1	8/2/2011 06:43 PM
Surr: Dibromofluoromethane	88.2	70-130		%REC	5	8/3/2011 06:09 PM
Surr: Toluene-d8	90.8	70-130		%REC	5	8/3/2011 06:09 PM
Surr: Toluene-d8	110	70-130		%REC	1	8/2/2011 06:43 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119216	**Collection Date:**	8/1/2011 1:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110801A	QC Batch: 74652			PrepDate: 8/1/2011	Analyst: **JSD**	
1,4-Dioxane	210	2.0		µg/L	10	8/3/2011 09:52 AM
Surr: 1,2-Dichlorobenzene-d4	99.9	58-99	S	%REC	10	8/3/2011 09:52 AM
Surr: 2-Fluorobiphenyl	107	60-104	S	%REC	10	8/3/2011 09:52 AM
Surr: 4-Terphenyl-d14	131	65-127	S	%REC	10	8/3/2011 09:52 AM
Surr: Nitrobenzene-d5	102	50-136		%REC	10	8/3/2011 09:52 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119216	**Collection Date:**	8/1/2011 1:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110803B	QC Batch: 74721			PrepDate:	8/3/2011	Analyst: **PT**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	8/3/2011 09:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119216	**Collection Date:**	8/1/2011 1:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110803C	QC Batch: 74748			PrepDate:	8/3/2011	Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	640	10		mg/L	1	8/3/2011 10:19 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119216	**Collection Date:**	8/1/2011 1:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110802A	QC Batch: R135512			PrepDate:		Analyst: **PT**
Bromide	2.3	0.050		mg/L	1	8/2/2011 11:43 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	119216	**Collection Date:**	8/1/2011 11:45:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110803B	QC Batch: 74721			PrepDate:	8/3/2011	Analyst: **PT**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	8/3/2011 09:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** POX
Lab Order: 119216 **Collection Date:** 8/1/2011 11:55:00 AM
Project: RAYTHEON FULLERTON-MONTHLY, 53 **Matrix:** GROUNDWATER
Lab ID: 119216-004A

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,1-Dichloroethane	0.66	0.50		µg/L	1	8/2/2011 07:03 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Benzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Bromobenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Bromoform	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Bromomethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Chlorobenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Chloroethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Chloroform	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Chloromethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 07:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119216	**Collection Date:**	8/1/2011 11:55:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Dibromomethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Ethylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
m,p-Xylene	ND	1.0		µg/L	1	8/2/2011 07:03 PM
Methylene chloride	ND	1.0		µg/L	1	8/2/2011 07:03 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Naphthalene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
o-Xylene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Styrene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Toluene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Trichloroethene	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Vinyl chloride	ND	0.50		µg/L	1	8/2/2011 07:03 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	8/2/2011 07:03 PM
Surr: 4-Bromofluorobenzene	93.5	70-130		%REC	1	8/2/2011 07:03 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	8/2/2011 07:03 PM
Surr: Toluene-d8	111	70-130		%REC	1	8/2/2011 07:03 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119216	**Collection Date:**	8/1/2011 11:55:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110801A	QC Batch: 74652			PrepDate: 8/1/2011	Analyst: **JSD**	
1,4-Dioxane	0.56	0.20		µg/L	1	8/3/2011 09:26 AM
Surr: 1,2-Dichlorobenzene-d4	97.0	58-99		%REC	1	8/3/2011 09:26 AM
Surr: 2-Fluorobiphenyl	102	60-104		%REC	1	8/3/2011 09:26 AM
Surr: 4-Terphenyl-d14	129	65-127	S	%REC	1	8/3/2011 09:26 AM
Surr: Nitrobenzene-d5	106	50-136		%REC	1	8/3/2011 09:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119216	**Collection Date:**	8/1/2011 11:55:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110803C	QC Batch: 74748			PrepDate:	8/3/2011	Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	650	10		mg/L	1	8/3/2011 10:19 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119216	**Collection Date:**	8/1/2011 11:55:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110802A	QC Batch: R135512			PrepDate:		Analyst: **PT**
Bromide	2.3	0.050		mg/L	1	8/2/2011 11:55 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	119216	**Collection Date:**	8/1/2011 12:10:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,1-Dichloroethane	0.72	0.50		µg/L	1	8/2/2011 05:40 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Benzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Bromobenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Bromoform	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Bromomethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Chlorobenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Chloroethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Chloroform	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Chloromethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 05:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	119216	**Collection Date:**	8/1/2011 12:10:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS11_110802A	QC Batch: A11VW129			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Dibromomethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Ethylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
m,p-Xylene	ND	1.0		µg/L	1	8/2/2011 05:40 PM
Methylene chloride	ND	1.0		µg/L	1	8/2/2011 05:40 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Naphthalene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
o-Xylene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Styrene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Toluene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Trichloroethene	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Vinyl chloride	ND	0.50		µg/L	1	8/2/2011 05:40 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	8/2/2011 05:40 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	8/2/2011 05:40 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	8/2/2011 05:40 PM
Surr: Toluene-d8	110	70-130		%REC	1	8/2/2011 05:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119216	**Collection Date:**	8/1/2011 12:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110802A QC Batch: A11VW129 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,1-Dichloroethane	0.81	0.50		µg/L	1	8/2/2011 06:23 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
2-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
4-Chlorotoluene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Benzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Bromobenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Bromodichloromethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Bromoform	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Bromomethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Carbon tetrachloride	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Chlorobenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Chloroethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Chloroform	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Chloromethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 06:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119216	**Collection Date:**	8/1/2011 12:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS11_110802A	QC Batch: A11VW129			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Dibromochloromethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Dibromomethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Ethylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Isopropylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
m,p-Xylene	ND	1.0		µg/L	1	8/2/2011 06:23 PM
Methylene chloride	ND	1.0		µg/L	1	8/2/2011 06:23 PM
n-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
n-Propylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Naphthalene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
o-Xylene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
sec-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Styrene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
tert-Butylbenzene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Tetrachloroethene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Toluene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Trichloroethene	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Vinyl chloride	ND	0.50		µg/L	1	8/2/2011 06:23 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	8/2/2011 06:23 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	8/2/2011 06:23 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	8/2/2011 06:23 PM
Surr: Toluene-d8	109	70-130		%REC	1	8/2/2011 06:23 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119216	**Collection Date:**	8/1/2011 12:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110803C	QC Batch: 74748			PrepDate:	8/3/2011	Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	650	10		mg/L	1	8/3/2011 10:19 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119216	**Collection Date:**	8/1/2011 12:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110802A	QC Batch: R135512			PrepDate:		Analyst: **PT**
Bromide	2.3	0.050		mg/L	1	8/2/2011 12:06 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **119213-005C-DUP** SampType: **DUP** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **8/3/2011** RunNo: **135595**
Client ID: **ZZZZZZ** Batch ID: **74748** TestNo: **SM2540C** Analysis Date: **8/3/2011** SeqNo: **2220803**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	1615.385	15						1666	3.09	10	

Sample ID: **LCS-74748** SampType: **LCS** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **8/3/2011** RunNo: **135595**
Client ID: **LCSW** Batch ID: **74748** TestNo: **SM2540C** Analysis Date: **8/3/2011** SeqNo: **2220807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	980.000	10	970.0	0	101	80	120				

Sample ID: **MB-74748** SampType: **MBLK** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **8/3/2011** RunNo: **135595**
Client ID: **PBW** Batch ID: **74748** TestNo: **SM2540C** Analysis Date: **8/3/2011** SeqNo: **2220808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **119234-001A-DUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **8/3/2011** RunNo: **135571**
Client ID: **ZZZZZZ** Batch ID: **74721** TestNo: **SM2540D** Analysis Date: **8/3/2011** SeqNo: **2220362**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-74721** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **8/3/2011** RunNo: **135571**
Client ID: **LCSW** Batch ID: **74721** TestNo: **SM2540D** Analysis Date: **8/3/2011** SeqNo: **2220363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	95.000	10	96.60	0	98.3	80	120				

Sample ID: **MB-74721** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **8/3/2011** RunNo: **135571**
Client ID: **PBW** Batch ID: **74721** TestNo: **SM2540D** Analysis Date: **8/3/2011** SeqNo: **2220364**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R135512**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **135512**
Client ID: **PBW**	Batch ID: **R135512**	TestNo: **EPA 300.0**		Analysis Date: **8/2/2011**	SeqNo: **2219055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R135512**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **135512**
Client ID: **LCSW**	Batch ID: **R135512**	TestNo: **EPA 300.0**		Analysis Date: **8/2/2011**	SeqNo: **2219056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.998	0.050	1.000	0	99.8	90	110				

Sample ID: **119211-001A-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **135512**
Client ID: **ZZZZZZ**	Batch ID: **R135512**	TestNo: **EPA 300.0**		Analysis Date: **8/2/2011**	SeqNo: **2219058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.011	0.10						2.092	3.95	20	

Sample ID: **119211-001A-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **135512**
Client ID: **ZZZZZZ**	Batch ID: **R135512**	TestNo: **EPA 300.0**		Analysis Date: **8/2/2011**	SeqNo: **2219059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	6.398	0.10	5.000	2.092	86.1	80	120				

Sample ID: **119211-001A-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **135512**
Client ID: **ZZZZZZ**	Batch ID: **R135512**	TestNo: **EPA 300.0**		Analysis Date: **8/2/2011**	SeqNo: **2219060**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	6.346	0.10	5.000	2.092	85.1	80	120	6.398	0.810	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110802LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135560**
Client ID: **LCSW** Batch ID: **A11VW129** TestNo: **EPA 8260B** Analysis Date: **8/2/2011** SeqNo: **2220147**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.990	0.50	20.00	0	105	70	130				
Benzene	42.890	0.50	40.00	0	107	70	130				
Chlorobenzene	21.620	0.50	20.00	0	108	70	130				
MTBE	23.690	0.50	20.00	0	118	70	130				
Toluene	43.480	0.50	40.00	0	109	70	130				
Trichloroethene	20.380	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	27.100		25.00		108	70	130				
Surr: 4-Bromofluorobenzene	24.280		25.00		97.1	70	130				
Surr: Dibromofluoromethane	28.470		25.00		114	70	130				
Surr: Toluene-d8	27.380		25.00		110	70	130				

Sample ID: **A110802MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135560**
Client ID: **ZZZZZZ** Batch ID: **A11VW129** TestNo: **EPA 8260B** Analysis Date: **8/2/2011** SeqNo: **2220149**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.210	0.50	20.00	0	106	70	130				
Benzene	43.390	0.50	40.00	0	108	70	130				
Chlorobenzene	21.710	0.50	20.00	0	109	70	130				
Toluene	43.960	0.50	40.00	0	110	70	130				
Trichloroethene	20.790	0.50	20.00	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	26.580		25.00		106	70	130				
Surr: 4-Bromofluorobenzene	23.860		25.00		95.4	70	130				
Surr: Dibromofluoromethane	28.040		25.00		112	70	130				
Surr: Toluene-d8	26.940		25.00		108	70	130				

Sample ID: **A110802MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135560**
Client ID: **ZZZZZZ** Batch ID: **A11VW129** TestNo: **EPA 8260B** Analysis Date: **8/2/2011** SeqNo: **2220150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.770	0.50	20.00	0	104	70	130	21.21	2.10	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110802MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135560**
Client ID: **ZZZZZZ** Batch ID: **A11VW129** TestNo: **EPA 8260B** Analysis Date: **8/2/2011** SeqNo: **2220150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.270	0.50	40.00	0	108	70	130	43.39	0.277	20	
Chlorobenzene	21.860	0.50	20.00	0	109	70	130	21.71	0.689	20	
Toluene	43.670	0.50	40.00	0	109	70	130	43.96	0.662	20	
Trichloroethene	20.640	0.50	20.00	0	103	70	130	20.79	0.724	20	
Surr: 1,2-Dichloroethane-d4	25.940		25.00		104	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.090		25.00		96.4	70	130		0	0	
Surr: Dibromofluoromethane	27.400		25.00		110	70	130		0	0	
Surr: Toluene-d8	27.200		25.00		109	70	130		0	0	

Sample ID: **A110802MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135560**
Client ID: **PBW** Batch ID: **A11VW129** TestNo: **EPA 8260B** Analysis Date: **8/2/2011** SeqNo: **2220151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110802MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135560**
Client ID: **PBW** Batch ID: **A11VW129** TestNo: **EPA 8260B** Analysis Date: **8/2/2011** SeqNo: **2220151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110802MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135560**
Client ID: **PBW** Batch ID: **A11VW129** TestNo: **EPA 8260B** Analysis Date: **8/2/2011** SeqNo: **2220151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	26.540		25.00		106	70	130				
Surr: 4-Bromofluorobenzene	23.600		25.00		94.4	70	130				
Surr: Dibromofluoromethane	28.670		25.00		115	70	130				
Surr: Toluene-d8	27.270		25.00		109	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803CS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **LCSW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221054**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.150	0.50	20.00	0	80.8	70	130				
Benzene	40.030	0.50	40.00	0	100	70	130				
Chlorobenzene	20.450	0.50	20.00	0	102	70	130				
MTBE	21.360	0.50	20.00	0	107	70	130				
Toluene	41.680	0.50	40.00	0	104	70	130				
Trichloroethene	20.090	0.50	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	18.090		25.00		72.4	70	130				
Surr: 4-Bromofluorobenzene	25.250		25.00		101	70	130				
Surr: Dibromofluoromethane	21.100		25.00		84.4	70	130				
Surr: Toluene-d8	23.550		25.00		94.2	70	130				

Sample ID: **Q110803MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.360	0.50	20.00	0	86.8	70	130				
Benzene	39.830	0.50	40.00	0	99.6	70	130				
Chlorobenzene	19.990	0.50	20.00	0	100	70	130				
Toluene	41.230	0.50	40.00	0	103	70	130				
Trichloroethene	19.700	0.50	20.00	0	98.5	70	130				
Surr: 1,2-Dichloroethane-d4	17.840		25.00		71.4	70	130				
Surr: 4-Bromofluorobenzene	24.290		25.00		97.2	70	130				
Surr: Dibromofluoromethane	20.640		25.00		82.6	70	130				
Surr: Toluene-d8	23.260		25.00		93.0	70	130				

Sample ID: **Q110803MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.300	0.50	20.00	0	81.5	70	130	17.36	6.30	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.250	0.50	40.00	0	101	70	130	39.83	1.05	20	
Chlorobenzene	20.460	0.50	20.00	0	102	70	130	19.99	2.32	20	
Toluene	42.090	0.50	40.00	0	105	70	130	41.23	2.06	20	
Trichloroethene	20.640	0.50	20.00	0	103	70	130	19.70	4.66	20	
Surr: 1,2-Dichloroethane-d4	17.720		25.00		70.9	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.680		25.00		98.7	70	130		0	0	
Surr: Dibromofluoromethane	20.510		25.00		82.0	70	130		0	0	
Surr: Toluene-d8	23.670		25.00		94.7	70	130		0	0	

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	0.340	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **Q110803MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **PBW** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	20.250		25.00		81.0	70	130				
Surr: 4-Bromofluorobenzene	26.400		25.00		106	70	130				
Surr: Dibromofluoromethane	22.420		25.00		89.7	70	130				
Surr: Toluene-d8	23.850		25.00		95.4	70	130				

Sample ID: **119247-003AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.400	0.50	20.00	0	107	70	130				
Benzene	43.730	0.50	40.00	0	109	70	130				
Chlorobenzene	21.350	0.50	20.00	0	107	70	130				
Toluene	45.820	0.50	40.00	0	115	70	130				
Trichloroethene	22.870	0.50	20.00	0	114	70	130				
Surr: 1,2-Dichloroethane-d4	19.310		25.00		77.2	70	130				
Surr: 4-Bromofluorobenzene	25.350		25.00		101	70	130				
Surr: Dibromofluoromethane	21.540		25.00		86.2	70	130				
Surr: Toluene-d8	23.620		25.00		94.5	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **119247-003AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **135593**
Client ID: **ZZZZZZ** Batch ID: **Q11VW144** TestNo: **EPA 8260B** Analysis Date: **8/3/2011** SeqNo: **2221070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22.690	0.50	20.00	0	113	70	130	21.40	5.85	20	
Benzene	47.660	0.50	40.00	0	119	70	130	43.73	8.60	20	
Chlorobenzene	23.130	0.50	20.00	0	116	70	130	21.35	8.00	20	
Toluene	49.540	0.50	40.00	0	124	70	130	45.82	7.80	20	
Trichloroethene	24.930	0.50	20.00	0	125	70	130	22.87	8.62	20	
Surr: 1,2-Dichloroethane-d4	18.580		25.00		74.3	70	130		0	0	
Surr: 4-Bromofluorobenzene	25.480		25.00		102	70	130		0	0	
Surr: Dibromofluoromethane	21.350		25.00		85.4	70	130		0	0	
Surr: Toluene-d8	24.320		25.00		97.3	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74652** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/1/2011** RunNo: **135529**
Client ID: **PBW** Batch ID: **74652** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/1/2011** SeqNo: **2219328**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.874		1.000		87.4	58	99				
Surr: 2-Fluorobiphenyl	0.889		1.000		88.9	60	104				
Surr: 4-Terphenyl-d14	1.167		1.000		117	65	127				
Surr: Nitrobenzene-d5	0.907		1.000		90.7	50	136				

Sample ID: **LCS-74652** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/1/2011** RunNo: **135529**
Client ID: **LCSW** Batch ID: **74652** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/1/2011** SeqNo: **2219329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.037	0.20	1.000	0	104	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.873		1.000		87.3	58	99				
Surr: 2-Fluorobiphenyl	0.892		1.000		89.2	60	104				
Surr: 4-Terphenyl-d14	1.527		1.370		111	65	127				
Surr: Nitrobenzene-d5	0.931		1.000		93.1	50	136				

Sample ID: **MB-74652MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/1/2011** RunNo: **135529**
Client ID: **ZZZZZZ** Batch ID: **74652** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **8/1/2011** SeqNo: **2219330**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.039	0.20	1.000	0	104	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.865		1.000		86.5	58	99				
Surr: 2-Fluorobiphenyl	0.879		1.000		87.9	60	104				
Surr: 4-Terphenyl-d14	1.550		1.370		113	65	127				
Surr: Nitrobenzene-d5	0.905		1.000		90.5	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119216
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-74652MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **8/1/2011** RunNo: **135529**
Client ID: **ZZZZZZ** Batch ID: **74652** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **8/1/2011** SeqNo: **2219331**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.092	0.20	1.000	0	109	70	130	1.039	4.99	30	
Surr: 1,2-Dichlorobenzene-d4	0.836		1.000		83.6	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.858		1.000		85.8	60	104		0	0	
Surr: 4-Terphenyl-d14	1.575		1.370		115	65	127		0	0	
Surr: Nitrobenzene-d5	0.865		1.000		86.5	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Client: Advanced Technology Laboratories
Job No.: 133077

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
119216-002F /EW-02	ND
119216-004E /POX	6.4
119216-006D /CEFF	5.5
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 08-04-11

Calibration Summary

Sample ID: Laboratory Control Standard (50.0 ppb Second Source Standard)

Date Analyzed	Result	% Rec	% Rec Limits
08-04-11	50.5	101	80 - 120

Standard Curve (n=6) $r^2 \geq 0.999$

Quality Control Summary

Sample ID: 119216-004E /POX

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	6.4	20.0	24.2	89	24.6	91	2
QC Guidelines				75 - 125		75 - 125	10

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 *FAX: (562) 989-4040*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, California 90670

TEL: 562 948-2225
FAX: 562 948-5850
Acct #:

Field Sampler: Marcos Rodriguez

01-Aug-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 317.0		
119216-002F / EW-02	Groundwater	8/1/2011 1:15:00 PM	4OZP	1		
119216-004E / POX	Groundwater	8/1/2011 11:55:00 AM	4OZP	1		
119216-006D / CEFF	Groundwater	8/1/2011 12:15:00 PM	4OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM. RM
Please use PO#: SC06590 Please fax results by: NORMAL TAT
ANALYZE THE SAMPLES FOR BROMATE BY EPA 317
PLEASE SEND REPORT TO RACHELLE ARADA

	Date/Time		Date/Time
Relinquished by:	8/1/11	**Received by:**	
Relinquished by:		**Received by:**	

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 8/1/2011 PAGE 1 OF 1

PROJECT NAME	RAYTHEON FULLERTON-MONTHLY
PROJECT No./TASK No.	532.15
PROJECT MANAGER	CHRIS ROSS
Phone No.	858-455-6500
QA MANAGER	STEVE NETTO
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	MARCOS RODRIGUEZ

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED: VOCs by 8260B	1,4-Dioxane by 8270 SIM	Bromate by 317	TDS 160.1	TSS 160.2	Bromide by 300	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000
	TB-080111	8/1/11	09:30				X	X				X	2					X						X			
	EW_02		13:15	X				X				X	3	2	2		1	X	X	X	X	X	X		X		
	PF		11:45	X								X			1							X			X		
	POX		11:55	X				X				X	3	2	1		1	X	X	X	X		X	X			
	CBT		12:10	X				X				X	3					X						X			
	CEFF		12:15	X				X				X	3	2	1			X		X	X		X	X			
Total number of Containers per analysis:													14	6	5		2										

SPECIAL HANDLING

LABORATORY INFORMATION: ATL; SIGNAL HILL; 562-989-4045

REMARKS: Please include mrodriguez@hargis.com in lab report distribution list set 1,4-DIoxane MDL to 1.0 ppm

Total No. of Containers: 27

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	8/1/11	14:40	HARGIS + ASSOCIATES, INC.	C. Aguilar	8/1/11	1440	
Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold

☐ custody seals secure ☐ conforms to COC document

Shipment Method: DELIVER

Send Results to: STEVE NETTO

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

7-50

August 26, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119216

RE: RAYTHEON FULLERTON-MONTHLY, 532.

Attention: Steve Netto

Enclosed are the results for sample(s) received on August 01, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119216	**Collection Date:**	8/1/2011 1:15:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119216-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS6_110801A	QC Batch: 74652			PrepDate:	8/1/2011	Analyst: **JSD**
1,4-Dioxane	21	2.0		µg/L	10	8/3/2011 09:52 AM
Surr: 1,2-Dichlorobenzene-d4	99.9	58-99	S	%REC	10	8/3/2011 09:52 AM
Surr: 2-Fluorobiphenyl	107	60-104	S	%REC	10	8/3/2011 09:52 AM
Surr: 4-Terphenyl-d14	131	65-127	S	%REC	10	8/3/2011 09:52 AM
Surr: Nitrobenzene-d5	102	50-136		%REC	10	8/3/2011 09:52 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

September 27, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119757

RE: RAYTHEON FULLERTON - QUARTERLY, 5

Attention: Steve Netto

Enclosed are the results for sample(s) received on September 09, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON FULLERTON - QUARTERLY, 5
Lab Order: 119757

CASE NARRATIVE

Analytical Comments for EPA 300.0

Samples 119757-001A and 119757-002A, dilution was necessary due to sample matrix.

Samples 119757-001A-MS and 119757-001A-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 6010B

Sample 119757-001D-MSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119757	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	119757-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Chloride	110	5.0		mg/L	10	9/9/2011 07:57 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Nitrogen, Nitrite	ND	0.10		mg/L	1	9/9/2011 06:25 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Nitrogen, Nitrate (As N)	5.6	0.10		mg/L	1	9/9/2011 06:25 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.050		mg/L	1	9/9/2011 06:25 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Sulfate	130	10		mg/L	10	9/9/2011 07:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** EW-02
Lab Order: 119757 **Collection Date:** 9/9/2011 1:20:00 PM
Project: RAYTHEON FULLERTON - QUARTERLY **Matrix:** GROUNDWATER
Lab ID: 119757-001B

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED						
			SM2320B			
RunID: WETCHEM_110913C	QC Batch: R136584			PrepDate:		Analyst: **PT**
Alkalinity, Bicarbonate (As CaCO3)	230	5.0		mg/L	1	9/13/2011
Alkalinity, Carbonate (As CaCO3)	ND	5.0		mg/L	1	9/13/2011
Alkalinity, Hydroxide (As CaCO3)	ND	5.0		mg/L	1	9/13/2011
Alkalinity, Total (As CaCO3)	230	5.0		mg/L	1	9/13/2011

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119757	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	119757-001C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3010A			**EPA 6010B**		
RunID: ICP8_110915G	QC Batch: 75549			PrepDate:	9/15/2011	Analyst: **IL**
Selenium	ND	0.010		mg/L	1	9/15/2011 05:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119757	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	119757-001D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP						
	EPA 3010A			**EPA 6010B**		
RunID: ICP8_110915F	QC Batch: 75548			PrepDate:	9/15/2011	Analyst: **IL**
Calcium	90	0.50		mg/L	1	9/15/2011 05:37 PM
Iron	ND	0.50		mg/L	1	9/15/2011 05:37 PM
Magnesium	28	0.10		mg/L	1	9/15/2011 05:37 PM
Manganese	ND	0.50		mg/L	1	9/15/2011 05:37 PM
Selenium	ND	0.010		mg/L	1	9/15/2011 05:37 PM
Sodium	79	1.0		mg/L	1	9/27/2011 11:36 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119757	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	119757-001E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
CHEMICAL OXYGEN DEMAND						
		EPA 410.4				
RunID: WETCHEM_110913A	QC Batch: 75491			PrepDate:	9/13/2011	Analyst: **PT**
Chemical Oxygen Demand	9.0	5.0		mg/L	1	9/13/2011

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119757	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	119757-001F		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
		SM5310B				
RunID: TOC1_110914A	QC Batch: R136629			PrepDate:		Analyst: **PT**
Organic Carbon, Total	ND	3.0		mg/L	1	9/14/2011 07:41 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** POX
Lab Order: 119757 **Collection Date:** 9/9/2011 12:35:00 PM
Project: RAYTHEON FULLERTON - QUARTERLY **Matrix:** GROUNDWATER
Lab ID: 119757-002A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Chloride	110	5.0		mg/L	10	9/9/2011 07:45 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Nitrogen, Nitrite	ND	0.10		mg/L	1	9/9/2011 06:14 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Nitrogen, Nitrate (As N)	5.6	0.10		mg/L	1	9/9/2011 06:14 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.050		mg/L	1	9/9/2011 06:14 PM
ANIONS BY ION CHROMATOGRAPHY				**EPA 300.0**		
RunID: IC3_110909B QC Batch: R136603				PrepDate:		Analyst: **PT**
Sulfate	140	10		mg/L	10	9/9/2011 07:45 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119757	**Collection Date:**	9/9/2011 12:35:00 PM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	119757-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
CHEMICAL OXYGEN DEMAND						
			EPA 410.4			
RunID: WETCHEM_110913A	QC Batch: 75491			PrepDate:	9/13/2011	Analyst: **PT**
Chemical Oxygen Demand	38	5.0		mg/L	1	9/13/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119757	**Collection Date:**	9/9/2011 12:35:00 PM
Project:	RAYTHEON FULLERTON - QUARTERLY	**Matrix:**	GROUNDWATER
Lab ID:	119757-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL ORGANIC CARBON						
		SM5310B				
RunID: TOC1_110914A	QC Batch: R136629			PrepDate:		Analyst: **PT**
Organic Carbon, Total	ND	3.0		mg/L	1	9/14/2011 07:54 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CL

Sample ID: **MB-R136603**	SampType: **MBLK**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **PBW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239935**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R136603**	SampType: **LCS**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **LCSW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.018	0.50	1.000	0	102	90	110				

Sample ID: **119757-001A-MS**	SampType: **MS**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	138.178	5.0	25.00	109.7	114	80	120				

Sample ID: **119757-001A-MSD**	SampType: **MSD**	TestCode: **300_W_CL**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	137.934	5.0	25.00	109.7	113	80	120	138.2	0.177	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO2

Sample ID: **MB-R136603**	SampType: **MBLK**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **PBW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	ND	0.10									

Sample ID: **LCS-R136603**	SampType: **LCS**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **LCSW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239970**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	0.963	0.10	1.000	0	96.3	90	110				

Sample ID: **119757-001A-MS**	SampType: **MS**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239974**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	3.435	0.10	2.500	0	137	80	120				S

Sample ID: **119757-001A-MSD**	SampType: **MSD**	TestCode: **300_W_NO2**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrite	3.489	0.10	2.500	0	140	80	120	3.435	1.56	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_NO3

Sample ID: **MB-R136603**	SampType: **MBLK**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **PBW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239948**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10									

Sample ID: **LCS-R136603**	SampType: **LCS**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **LCSW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	1.015	0.10	1.000	0	101	90	110				

Sample ID: **119757-001A-MS**	SampType: **MS**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239953**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	8.345	0.10	2.500	5.620	109	80	120				

Sample ID: **119757-001A-MSD**	SampType: **MSD**	TestCode: **300_W_NO3**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239954**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	8.384	0.10	2.500	5.620	111	80	120	8.345	0.463	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_PO4

Sample ID: **MB-R136603** SampType: **MBLK** TestCode: **300_W_PO4** Units: **mg/L** Prep Date: RunNo: **136603**
Client ID: **PBW** Batch ID: **R136603** TestNo: **EPA 300.0** Analysis Date: **9/9/2011** SeqNo: **2239955**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	ND	0.050									

Sample ID: **LCS-R136603** SampType: **LCS** TestCode: **300_W_PO4** Units: **mg/L** Prep Date: RunNo: **136603**
Client ID: **LCSW** Batch ID: **R136603** TestNo: **EPA 300.0** Analysis Date: **9/9/2011** SeqNo: **2239956**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	1.051	0.050	1.000	0	105	90	110				

Sample ID: **119757-001A-MS** SampType: **MS** TestCode: **300_W_PO4** Units: **mg/L** Prep Date: RunNo: **136603**
Client ID: **EW-02** Batch ID: **R136603** TestNo: **EPA 300.0** Analysis Date: **9/9/2011** SeqNo: **2239960**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	1.656	0.050	2.500	0	66.2	80	120				S

Sample ID: **119757-001A-MSD** SampType: **MSD** TestCode: **300_W_PO4** Units: **mg/L** Prep Date: RunNo: **136603**
Client ID: **EW-02** Batch ID: **R136603** TestNo: **EPA 300.0** Analysis Date: **9/9/2011** SeqNo: **2239961**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Dissolved Orthophosphate	1.818	0.050	2.500	0	72.7	80	120	1.656	9.37	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4

Sample ID: **MB-R136603**	SampType: **MBLK**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **PBW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239962**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	1.0									

Sample ID: **LCS-R136603**	SampType: **LCS**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **LCSW**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239963**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	2.098	1.0	2.000	0	105	90	110				

Sample ID: **119757-001A-MS**	SampType: **MS**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239967**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	191.357	10	50.00	134.8	113	80	120				

Sample ID: **119757-001A-MSD**	SampType: **MSD**	TestCode: **300_W_SO4**	Units: **mg/L**	Prep Date:	RunNo: **136603**
Client ID: **EW-02**	Batch ID: **R136603**	TestNo: **EPA 300.0**		Analysis Date: **9/9/2011**	SeqNo: **2239968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	193.035	10	50.00	134.8	117	80	120	191.4	0.873	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 310.1_W_SP_2320B

Sample ID: **119757-001B-MS** SampType: **MS** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **136584**
Client ID: **EW-02** Batch ID: **R136584** TestNo: **SM2320B** Analysis Date: **9/13/2011** SeqNo: **2239542**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Carbonate (As CaCO3)	191.304	5.0	200.0	0	95.7	80	120				
Alkalinity, Total (As CaCO3)	430.435	5.0	200.0	230.4	100	80	120				

Sample ID: **119757-001B-MSD** SampType: **MSD** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **136584**
Client ID: **EW-02** Batch ID: **R136584** TestNo: **SM2320B** Analysis Date: **9/13/2011** SeqNo: **2239543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Carbonate (As CaCO3)	173.913	5.0	200.0	0	87.0	80	120	191.3	9.52	20	
Alkalinity, Total (As CaCO3)	426.087	5.0	200.0	230.4	97.8	80	120	430.4	1.02	20	

Sample ID: **LCS-R136584** SampType: **LCS** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **136584**
Client ID: **LCSW** Batch ID: **R136584** TestNo: **SM2320B** Analysis Date: **9/13/2011** SeqNo: **2239544**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Carbonate (As CaCO3)	91.304	5.0	100.0	0	91.3	80	120				
Alkalinity, Total (As CaCO3)	104.348	5.0	100.0	0	104	80	120				

Sample ID: **MB-R136584** SampType: **MBLK** TestCode: **310.1_W_SP_** Units: **mg/L** Prep Date: RunNo: **136584**
Client ID: **PBW** Batch ID: **R136584** TestNo: **SM2320B** Analysis Date: **9/13/2011** SeqNo: **2239545**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0									
Alkalinity, Carbonate (As CaCO3)	ND	5.0									
Alkalinity, Hydroxide (As CaCO3)	ND	5.0									
Alkalinity, Total (As CaCO3)	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 410.4_W

Sample ID: **119740-001B-MS**	SampType: **MS**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **9/13/2011**	RunNo: **136581**
Client ID: **ZZZZZZ**	Batch ID: **75491**	TestNo: **EPA 410.4**		Analysis Date: **9/13/2011**	SeqNo: **2239516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	509.500	5.0	500.0	17.30	98.4	80	120				

Sample ID: **119740-001B-MSD**	SampType: **MSD**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **9/13/2011**	RunNo: **136581**
Client ID: **ZZZZZZ**	Batch ID: **75491**	TestNo: **EPA 410.4**		Analysis Date: **9/13/2011**	SeqNo: **2239517**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	516.600	5.0	500.0	17.30	99.9	80	120	509.5	1.38	20	

Sample ID: **LCS-75491**	SampType: **LCS**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **9/13/2011**	RunNo: **136581**
Client ID: **LCSW**	Batch ID: **75491**	TestNo: **EPA 410.4**		Analysis Date: **9/13/2011**	SeqNo: **2239522**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	493.800	5.0	500.0	0	98.8	80	120				

Sample ID: **MB-75491**	SampType: **MBLK**	TestCode: **410.4_W**	Units: **mg/L**	Prep Date: **9/13/2011**	RunNo: **136581**
Client ID: **PBW**	Batch ID: **75491**	TestNo: **EPA 410.4**		Analysis Date: **9/13/2011**	SeqNo: **2239523**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chemical Oxygen Demand	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 415.1_5310B_W

Sample ID: **MB-R136629**	SampType: **MBLK**	TestCode: **415.1_5310B_**	Units: **mg/L**	Prep Date:	RunNo: **136629**
Client ID: **PBW**	Batch ID: **R136629**	TestNo: **SM5310B**		Analysis Date: **9/14/2011**	SeqNo: **2240406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	3.0									

Sample ID: **LCS-R136629**	SampType: **LCS**	TestCode: **415.1_5310B_**	Units: **mg/L**	Prep Date:	RunNo: **136629**
Client ID: **LCSW**	Batch ID: **R136629**	TestNo: **SM5310B**		Analysis Date: **9/14/2011**	SeqNo: **2240407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	21.930	3.0	20.00	0	110	80	120				

Sample ID: **LCSD**	SampType: **LCSD**	TestCode: **415.1_5310B_**	Units: **mg/L**	Prep Date:	RunNo: **136629**
Client ID: **LCSS02**	Batch ID: **R136629**	TestNo: **SM5310B**		Analysis Date: **9/14/2011**	SeqNo: **2240408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	21.610	3.0	20.00	0	108	80	120	21.93	1.47	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_W

Sample ID: **MB-75549**	SampType: **MBLK**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **9/15/2011**	RunNo: **136696**
Client ID: **PBW**	Batch ID: **75549**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **9/15/2011**	SeqNo: **2241397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.010									

Sample ID: **LCS-75549**	SampType: **LCS**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **9/15/2011**	RunNo: **136696**
Client ID: **LCSW**	Batch ID: **75549**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **9/15/2011**	SeqNo: **2241398**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.886	0.010	1.000	0	88.6	85	115				

Sample ID: **119757-001C-MS**	SampType: **MS**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **9/15/2011**	RunNo: **136696**
Client ID: **EW-02**	Batch ID: **75549**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **9/15/2011**	SeqNo: **2241400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	2.298	0.010	2.500	0.005432	91.7	78	120				

Sample ID: **119757-001C-MSD**	SampType: **MSD**	TestCode: **6010_W**	Units: **mg/L**	Prep Date: **9/15/2011**	RunNo: **136696**
Client ID: **EW-02**	Batch ID: **75549**	TestNo: **EPA 6010B**	**EPA 3010A**	Analysis Date: **9/15/2011**	SeqNo: **2241401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	2.441	0.010	2.500	0.005432	97.4	78	120	2.298	6.08	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- Calculations are based on raw values

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WD

Sample ID: **MB-75548** SampType: **MBLK** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **136695**
Client ID: **PBW** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/15/2011** SeqNo: **2241392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	0.50									
Iron	ND	0.50									
Magnesium	ND	0.10									
Manganese	0.004	0.50									
Selenium	ND	0.010									

Sample ID: **LCS-75548** SampType: **LCS** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **136695**
Client ID: **LCSW** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/15/2011** SeqNo: **2241393**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20.749	0.50	20.00	0	104	85	115				
Iron	19.947	0.50	20.00	0	99.7	85	115				
Magnesium	20.184	0.10	20.00	0	101	85	115				
Manganese	19.177	0.50	20.00	0.004125	95.9	85	115				
Selenium	0.947	0.010	1.000	0	94.7	85	115				

Sample ID: **119757-001D-MS** SampType: **MS** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **136695**
Client ID: **EW-02** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/15/2011** SeqNo: **2241395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	116.381	0.50	20.00	90.22	131	37	168				
Iron	19.666	0.50	20.00	0	98.3	69	133				
Magnesium	49.494	0.10	20.00	28.14	107	69	135				
Manganese	18.645	0.50	20.00	0.004243	93.2	74	121				
Selenium	2.368	0.010	2.500	0	94.7	78	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119757
Project: RAYTHEON FULLERTON - QUARTERLY, 5

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WD

Sample ID: **119757-001D-MSD** SampType: **MSD** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **136695**
Client ID: **EW-02** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/15/2011** SeqNo: **2241396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	122.689	0.50	20.00	90.22	162	23	168	116.4	5.28	20	
Iron	20.461	0.50	20.00	0	102	65	129	19.67	3.96	20	
Magnesium	52.101	0.10	20.00	28.14	120	51	145	49.49	5.13	20	
Manganese	19.437	0.50	20.00	0.004243	97.2	75	112	18.64	4.16	20	
Selenium	2.468	0.010	2.500	0	98.7	73	124	2.368	4.13	20	

Sample ID: **MB-75548** SampType: **MBLK** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **137027**
Client ID: **PBW** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/27/2011** SeqNo: **2248720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	1.0									

Sample ID: **LCS-75548** SampType: **LCS** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **137027**
Client ID: **LCSW** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/27/2011** SeqNo: **2248721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	21.421	1.0	20.00	0	107	85	115				

Sample ID: **119757-001D-MS** SampType: **MS** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **137027**
Client ID: **EW-02** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/27/2011** SeqNo: **2248723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	101.527	2.0	20.00	79.04	112	70	130				

Sample ID: **119757-001D-MSD** SampType: **MSD** TestCode: **6010_WD** Units: **mg/L** Prep Date: **9/15/2011** RunNo: **137027**
Client ID: **EW-02** Batch ID: **75548** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **9/27/2011** SeqNo: **2248724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	106.069	2.0	20.00	79.04	135	70	130	101.5	4.38	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 9/9/11 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
RAYTHEON FULLERTON - QUARTERLY	532.15
PROJECT MANAGER CHRIS ROSS	**Phone No.** 858-455-6500
QA MANAGER STEVE NETTO	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** MARCOS RODRIGUEZ

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground water	Surface water	Lab H2O	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	40 ml VOA	ANALYSIS REQUESTED Total Se by 6010B	Dissolved Se,Fe,Mn,Ca,Na,Mg by 6010B	Alkalinity (hydroxide,Bicarbonate, Carbonate and Total) by 301.	TOC by 415.1	Anions (Cl,SO4,NO3,NO2,PO4) by 300	COD by 410.4	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	SPECIAL HANDLING Lab to filter and acidify	Dissolved metals	Lab to filter anions	LABORATORY INFORMATION / REMARKS
	~~TB~~																												
	EW-02	9/9/11	13:20		X			X	X		X		1	1	3		1	X	X	X	X	X	X		X	X		X	
	POX	↓	12:55		X			X			X		1	1	1						X	X	X	X				X	
Total number of Containers per analysis:													2	1	4		2												**Total No. of Containers:** 9

Relinquished by:	Date	Time	Received by:	Date	Time
H+A	9/9/11	15:20	ATL	9/9/11	1526
Company			Company		
Relinquished by:	Date		Received by:	Date	
Company	Time		Company	Time	

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: DELIVER
Send Results to: STEVE NETTO

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

2.4

September 21, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 119760

RE: RAYTHEON FULLERTON-MONTHLY, 532.

Attention: Steve Netto

Enclosed are the results for sample(s) received on September 09, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON FULLERTON-MONTHLY, 532.1
Lab Order: 119760

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-090911
Lab Order:	119760	**Collection Date:**	9/9/2011 11:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
2-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
4-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Benzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Bromobenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Bromodichloromethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Bromoform	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Bromomethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Carbon tetrachloride	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Chlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Chloroethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Chloroform	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Chloromethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 12:29 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-090911
Lab Order:	119760	**Collection Date:**	9/9/2011 11:30:00 AM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Dibromochloromethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Dibromomethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Ethylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Isopropylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
m,p-Xylene	ND	1.0		µg/L	1	9/15/2011 12:29 AM
Methylene chloride	ND	1.0		µg/L	1	9/15/2011 12:29 AM
n-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
n-Propylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Naphthalene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
o-Xylene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
sec-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Styrene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
tert-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Tetrachloroethene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Toluene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Trichloroethene	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Vinyl chloride	ND	0.50		µg/L	1	9/15/2011 12:29 AM
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	1	9/15/2011 12:29 AM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	9/15/2011 12:29 AM
Surr: Dibromofluoromethane	109	70-130		%REC	1	9/15/2011 12:29 AM
Surr: Toluene-d8	112	70-130		%REC	1	9/15/2011 12:29 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119760	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,1-Dichloroethane	0.82	0.50		µg/L	1	9/15/2011 01:47 AM
1,1-Dichloroethene	90	0.50		µg/L	1	9/15/2011 01:47 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
2-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
4-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Benzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Bromobenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Bromodichloromethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Bromoform	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Bromomethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Carbon tetrachloride	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Chlorobenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Chloroethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Chloroform	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Chloromethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 01:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119760	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Dibromochloromethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Dibromomethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Ethylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Isopropylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
m,p-Xylene	ND	1.0		µg/L	1	9/15/2011 01:47 AM
Methylene chloride	ND	1.0		µg/L	1	9/15/2011 01:47 AM
n-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
n-Propylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Naphthalene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
o-Xylene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
sec-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Styrene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
tert-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Tetrachloroethene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Toluene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Trichloroethene	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Vinyl chloride	ND	0.50		µg/L	1	9/15/2011 01:47 AM
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%REC	1	9/15/2011 01:47 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/15/2011 01:47 AM
Surr: Dibromofluoromethane	107	70-130		%REC	1	9/15/2011 01:47 AM
Surr: Toluene-d8	109	70-130		%REC	1	9/15/2011 01:47 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119760	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_110914A	QC Batch: 75499			PrepDate: 9/14/2011		Analyst: **JSD**
1,4-Dioxane	20	0.20		µg/L	1	9/14/2011 08:01 PM
Surr: 1,2-Dichlorobenzene-d4	79.9	58-99		%REC	1	9/14/2011 08:01 PM
Surr: 2-Fluorobiphenyl	77.1	60-104		%REC	1	9/14/2011 08:01 PM
Surr: 4-Terphenyl-d14	104	65-127		%REC	1	9/14/2011 08:01 PM
Surr: Nitrobenzene-d5	65.0	50-136		%REC	1	9/14/2011 08:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119760	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110914B	QC Batch: 75514			PrepDate: 9/14/2011		Analyst: **PT**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	9/14/2011 08:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119760	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110914D	QC Batch: 75572			PrepDate: 9/14/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	670	10		mg/L	1	9/14/2011 03:52 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	119760	**Collection Date:**	9/9/2011 1:20:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110920B	QC Batch: R136856			PrepDate:		Analyst: **PT**
Bromide	0.48	0.050		mg/L	1	9/20/2011 01:54 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	119760	**Collection Date:**	9/9/2011 12:30:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_110914B	QC Batch: 75514			PrepDate: 9/14/2011		Analyst: **PT**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	9/14/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc. **Client Sample ID:** POX
Lab Order: 119760 **Collection Date:** 9/9/2011 12:35:00 PM
Project: RAYTHEON FULLERTON-MONTHLY, 53 **Matrix:** GROUNDWATER
Lab ID: 119760-004A

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,1-Dichloroethane	0.61	0.50		µg/L	1	9/15/2011 02:26 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
2-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
4-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Benzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Bromobenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Bromodichloromethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Bromoform	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Bromomethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Carbon tetrachloride	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Chlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Chloroethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Chloroform	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Chloromethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 02:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119760	**Collection Date:**	9/9/2011 12:35:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Dibromochloromethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Dibromomethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Ethylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Isopropylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
m,p-Xylene	ND	1.0		µg/L	1	9/15/2011 02:26 AM
Methylene chloride	ND	1.0		µg/L	1	9/15/2011 02:26 AM
n-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
n-Propylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Naphthalene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
o-Xylene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
sec-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Styrene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
tert-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Tetrachloroethene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Toluene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Trichloroethene	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Vinyl chloride	ND	0.50		µg/L	1	9/15/2011 02:26 AM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%REC	1	9/15/2011 02:26 AM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	9/15/2011 02:26 AM
Surr: Dibromofluoromethane	107	70-130		%REC	1	9/15/2011 02:26 AM
Surr: Toluene-d8	109	70-130		%REC	1	9/15/2011 02:26 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119760	**Collection Date:**	9/9/2011 12:35:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_110914A	QC Batch: 75499			PrepDate: 9/14/2011		Analyst: **JSD**
1,4-Dioxane	0.49	0.20		µg/L	1	9/14/2011 08:29 PM
Surr: 1,2-Dichlorobenzene-d4	81.5	58-99		%REC	1	9/14/2011 08:29 PM
Surr: 2-Fluorobiphenyl	79.4	60-104		%REC	1	9/14/2011 08:29 PM
Surr: 4-Terphenyl-d14	115	65-127		%REC	1	9/14/2011 08:29 PM
Surr: Nitrobenzene-d5	67.6	50-136		%REC	1	9/14/2011 08:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119760	**Collection Date:**	9/9/2011 12:35:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110914D	QC Batch: 75572			PrepDate: 9/14/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	670	10		mg/L	1	9/14/2011 03:52 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	119760	**Collection Date:**	9/9/2011 12:35:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110920B	QC Batch: R136856			PrepDate:		Analyst: **PT**
Bromide	0.50	0.050		mg/L	1	9/20/2011 02:06 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	119760	**Collection Date:**	9/9/2011 12:45:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,1-Dichloroethane	0.64	0.50		µg/L	1	9/15/2011 02:46 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
2-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
4-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Benzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Bromobenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Bromodichloromethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Bromoform	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Bromomethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Carbon tetrachloride	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Chlorobenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Chloroethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Chloroform	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Chloromethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 02:46 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	119760	**Collection Date:**	9/9/2011 12:45:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Dibromochloromethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Dibromomethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Ethylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Isopropylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
m,p-Xylene	ND	1.0		µg/L	1	9/15/2011 02:46 AM
Methylene chloride	ND	1.0		µg/L	1	9/15/2011 02:46 AM
n-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
n-Propylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Naphthalene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
o-Xylene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
sec-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Styrene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
tert-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Tetrachloroethene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Toluene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Trichloroethene	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Vinyl chloride	ND	0.50		µg/L	1	9/15/2011 02:46 AM
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%REC	1	9/15/2011 02:46 AM
Surr: 4-Bromofluorobenzene	98.4	70-130		%REC	1	9/15/2011 02:46 AM
Surr: Dibromofluoromethane	103	70-130		%REC	1	9/15/2011 02:46 AM
Surr: Toluene-d8	105	70-130		%REC	1	9/15/2011 02:46 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119760	**Collection Date:**	9/9/2011 12:50:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_110914B QC Batch: A11VW163 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,1-Dichloroethane	0.72	0.50		µg/L	1	9/15/2011 12:48 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
2-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
4-Chlorotoluene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Benzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Bromobenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Bromodichloromethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Bromoform	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Bromomethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Carbon tetrachloride	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Chlorobenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Chloroethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Chloroform	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Chloromethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 12:48 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119760	**Collection Date:**	9/9/2011 12:50:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
			EPA 8260B			
RunID: MS11_110914B	QC Batch: A11VW163			PrepDate:		Analyst: **BD**
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Dibromochloromethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Dibromomethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Dichlorodifluoromethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Ethylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Hexachlorobutadiene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Isopropylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
m,p-Xylene	ND	1.0		µg/L	1	9/15/2011 12:48 AM
Methylene chloride	ND	1.0		µg/L	1	9/15/2011 12:48 AM
n-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
n-Propylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Naphthalene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
o-Xylene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
sec-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Styrene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
tert-Butylbenzene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Tetrachloroethene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Toluene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Trichloroethene	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Trichlorofluoromethane	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Vinyl chloride	ND	0.50		µg/L	1	9/15/2011 12:48 AM
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%REC	1	9/15/2011 12:48 AM
Surr: 4-Bromofluorobenzene	97.5	70-130		%REC	1	9/15/2011 12:48 AM
Surr: Dibromofluoromethane	102	70-130		%REC	1	9/15/2011 12:48 AM
Surr: Toluene-d8	105	70-130		%REC	1	9/15/2011 12:48 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119760	**Collection Date:**	9/9/2011 12:50:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_110914D	QC Batch: 75572			PrepDate: 9/14/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	660	10		mg/L	1	9/14/2011 03:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	119760	**Collection Date:**	9/9/2011 12:50:00 PM
Project:	RAYTHEON FULLERTON-MONTHLY, 53	**Matrix:**	GROUNDWATER
Lab ID:	119760-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_110920B	QC Batch: R136856			PrepDate:		Analyst: **PT**
Bromide	0.52	0.050		mg/L	1	9/20/2011 02:17 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **119802-001A-DUP** SampType: **DUP** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **9/14/2011** RunNo: **136656**
Client ID: **ZZZZZZ** Batch ID: **75572** TestNo: **SM2540C** Analysis Date: **9/14/2011** SeqNo: **2240724**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	629.000	10						661.0	4.96	10	

Sample ID: **LCS-75572** SampType: **LCS** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **9/14/2011** RunNo: **136656**
Client ID: **LCSW** Batch ID: **75572** TestNo: **SM2540C** Analysis Date: **9/14/2011** SeqNo: **2240730**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	983.000	10	970.0	0	101	80	120				

Sample ID: **MB-75572** SampType: **MBLK** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **9/14/2011** RunNo: **136656**
Client ID: **PBW** Batch ID: **75572** TestNo: **SM2540C** Analysis Date: **9/14/2011** SeqNo: **2240731**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **119760-002C-DUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **9/14/2011** RunNo: **136602**
Client ID: **EW-02** Batch ID: **75514** TestNo: **SM2540D** Analysis Date: **9/14/2011** SeqNo: **2239928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-75514** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **9/14/2011** RunNo: **136602**
Client ID: **LCSW** Batch ID: **75514** TestNo: **SM2540D** Analysis Date: **9/14/2011** SeqNo: **2239933**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	95.000	10	96.60	0	98.3	80	120				

Sample ID: **MB-75514** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **9/14/2011** RunNo: **136602**
Client ID: **PBW** Batch ID: **75514** TestNo: **SM2540D** Analysis Date: **9/14/2011** SeqNo: **2239934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R136856**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **136856**
Client ID: **PBW**	Batch ID: **R136856**	TestNo: **EPA 300.0**		Analysis Date: **9/20/2011**	SeqNo: **2244655**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R136856**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **136856**
Client ID: **LCSW**	Batch ID: **R136856**	TestNo: **EPA 300.0**		Analysis Date: **9/20/2011**	SeqNo: **2244656**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.011	0.050	1.000	0	101	90	110				

Sample ID: **119815-004E-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **136856**
Client ID: **ZZZZZZ**	Batch ID: **R136856**	TestNo: **EPA 300.0**		Analysis Date: **9/20/2011**	SeqNo: **2244667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.181	0.25						0.1720	0	20	

Sample ID: **119815-004E-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **136856**
Client ID: **ZZZZZZ**	Batch ID: **R136856**	TestNo: **EPA 300.0**		Analysis Date: **9/20/2011**	SeqNo: **2244668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	12.917	0.25	12.50	0.1720	102	80	120				

Sample ID: **119815-004E-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **136856**
Client ID: **ZZZZZZ**	Batch ID: **R136856**	TestNo: **EPA 300.0**		Analysis Date: **9/20/2011**	SeqNo: **2244669**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	13.518	0.25	12.50	0.1720	107	80	120	12.92	4.55	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110914LCS2** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **136639**
Client ID: **LCSW** Batch ID: **A11VW163** TestNo: **EPA 8260B** Analysis Date: **9/14/2011** SeqNo: **2240545**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19.970	0.50	20.00	0	99.8	70	130				
Benzene	37.480	0.50	40.00	0	93.7	70	130				
Chlorobenzene	19.620	0.50	20.00	0	98.1	70	130				
MTBE	17.910	0.50	20.00	0	89.6	70	130				
Toluene	38.800	0.50	40.00	0	97.0	70	130				
Trichloroethene	19.450	0.50	20.00	0	97.3	70	130				
Surr: 1,2-Dichloroethane-d4	22.450		25.00		89.8	70	130				
Surr: 4-Bromofluorobenzene	24.360		25.00		97.4	70	130				
Surr: Dibromofluoromethane	23.680		25.00		94.7	70	130				
Surr: Toluene-d8	23.690		25.00		94.8	70	130				

Sample ID: **A110914MB4MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **136639**
Client ID: **ZZZZZZ** Batch ID: **A11VW163** TestNo: **EPA 8260B** Analysis Date: **9/14/2011** SeqNo: **2240546**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.310	0.50	20.00	0	102	70	130				
Benzene	38.120	0.50	40.00	0	95.3	70	130				
Chlorobenzene	19.930	0.50	20.00	0	99.7	70	130				
Toluene	39.290	0.50	40.00	0	98.2	70	130				
Trichloroethene	19.650	0.50	20.00	0	98.2	70	130				
Surr: 1,2-Dichloroethane-d4	22.000		25.00		88.0	70	130				
Surr: 4-Bromofluorobenzene	24.400		25.00		97.6	70	130				
Surr: Dibromofluoromethane	23.760		25.00		95.0	70	130				
Surr: Toluene-d8	23.880		25.00		95.5	70	130				

Sample ID: **A110914MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **136639**
Client ID: **ZZZZZZ** Batch ID: **A11VW163** TestNo: **EPA 8260B** Analysis Date: **9/14/2011** SeqNo: **2240547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.130	0.50	20.00	0	101	70	130	20.31	0.890	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110914MB4MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **136639**
Client ID: **ZZZZZZ** Batch ID: **A11VW163** TestNo: **EPA 8260B** Analysis Date: **9/14/2011** SeqNo: **2240547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.070	0.50	40.00	0	95.2	70	130	38.12	0.131	20	
Chlorobenzene	19.970	0.50	20.00	0	99.8	70	130	19.93	0.201	20	
Toluene	38.660	0.50	40.00	0	96.7	70	130	39.29	1.62	20	
Trichloroethene	19.610	0.50	20.00	0	98.0	70	130	19.65	0.204	20	
Surr: 1,2-Dichloroethane-d4	22.300		25.00		89.2	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.120		25.00		96.5	70	130		0	0	
Surr: Dibromofluoromethane	23.410		25.00		93.6	70	130		0	0	
Surr: Toluene-d8	23.250		25.00		93.0	70	130		0	0	

Sample ID: **A110914MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **136639**
Client ID: **PBW** Batch ID: **A11VW163** TestNo: **EPA 8260B** Analysis Date: **9/15/2011** SeqNo: **2240548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110914MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **136639**
Client ID: **PBW** Batch ID: **A11VW163** TestNo: **EPA 8260B** Analysis Date: **9/15/2011** SeqNo: **2240548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A110914MB4** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **136639**
Client ID: **PBW** Batch ID: **A11VW163** TestNo: **EPA 8260B** Analysis Date: **9/15/2011** SeqNo: **2240548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	22.700		25.00		90.8	70	130				
Surr: 4-Bromofluorobenzene	24.980		25.00		99.9	70	130				
Surr: Dibromofluoromethane	25.420		25.00		102	70	130				
Surr: Toluene-d8	26.720		25.00		107	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-75499** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **9/14/2011** RunNo: **136623**
Client ID: **PBW** Batch ID: **75499** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **9/14/2011** SeqNo: **2240285**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.749		1.000		74.9	58	99				
Surr: 2-Fluorobiphenyl	0.715		1.000		71.5	60	104				
Surr: 4-Terphenyl-d14	0.972		1.000		97.2	65	127				
Surr: Nitrobenzene-d5	0.607		1.000		60.7	50	136				

Sample ID: **LCS-75499** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **9/14/2011** RunNo: **136623**
Client ID: **LCSW** Batch ID: **75499** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **9/14/2011** SeqNo: **2240286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.014	0.20	1.000	0	101	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.669		1.000		66.9	58	99				
Surr: 2-Fluorobiphenyl	0.650		1.000		65.0	60	104				
Surr: 4-Terphenyl-d14	0.848		1.000		84.8	65	127				
Surr: Nitrobenzene-d5	0.577		1.000		57.7	50	136				

Sample ID: **MB-75499MS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **9/14/2011** RunNo: **136623**
Client ID: **ZZZZZZ** Batch ID: **75499** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **9/14/2011** SeqNo: **2240287**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.054	0.20	1.000	0	105	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.704		1.000		70.4	58	99				
Surr: 2-Fluorobiphenyl	0.677		1.000		67.7	60	104				
Surr: 4-Terphenyl-d14	0.939		1.000		93.9	65	127				
Surr: Nitrobenzene-d5	0.585		1.000		58.5	50	136				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 119760
Project: RAYTHEON FULLERTON-MONTHLY, 532.

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-75499MSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **9/14/2011** RunNo: **136623**
Client ID: **ZZZZZZ** Batch ID: **75499** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **9/14/2011** SeqNo: **2240288**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.019	0.20	1.000	0	102	70	130	1.054	3.40	30	
Surr: 1,2-Dichlorobenzene-d4	0.714		1.000		71.4	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.692		1.000		69.2	60	104		0	0	
Surr: 4-Terphenyl-d14	0.850		1.000		85.0	65	127		0	0	
Surr: Nitrobenzene-d5	0.594		1.000		59.4	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Client: Advanced Technology Laboratories
Job No.: 134029

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

Sample Preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
119760-002F / EW-02	ND
119760-004E / POX	8.1
119760-006D / CEFF	11.9
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 09-15-11

Calibration Summary

Sample ID: Laboratory Control Standard (50.0 ppb Second Source Standard)

Date Analyzed	Result	% Rec	% Rec Limits
09-15-11	51.5	103	80 - 120

Standard Curve (n=6) $r^2 \geq 0.999$

Quality Control Summary

Sample ID: 119760-002F / EW-02

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	ND	20.0	18.3	92	18.2	91	1
QC Guidelines				75 - 125		75 - 125	NMT 10

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 9/9/11 PAGE 1 OF 1

PROJECT NAME	RAYTHEON FULLERTON-MONTHLY
PROJECT No./TASK No.	532.15
PROJECT MANAGER	CHRIS ROSS
Phone No.	858-455-6500
QA MANAGER	STEVE NETTO
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	MARCOS RODRIGUEZ

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESER-VATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED VOCs by 8260B	1,4-Dioxane by 8270 SIM	Bromate by 317	TDS ~~160.1~~ SM2540C	TSS ~~160.2~~ SM2540D	Bromide by 300	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING	REMARKS
	TB-090911	9/9/11	11:30				X	X				X	2					X						X					Please include
	EW-02		13:20	X				X				X	3	2	2		1	X	X	X	X	X		X		X			mrodriguez@hargis.com
	PF		12:30	X								X			1							X			X				in lab report
	POX		12:35	X				X				X	3	2	1		1	X	X	X	X			X	X				distribution list
	CBT		12:45	X				X				X	3					X						X					set 1,4-Dioxane
	CEFF		12:50	X				X				X	3	2	1			X		X	X			X	X				MDL to 1.0 ppm

LABORATORY INFORMATION: ATL; SIGNAL HILL; 562-989-4045

Total number of Containers per analysis: 14 6 5 2

Total No. of Containers: 27

Relinquished by:	Date	Time	Received by:	Date	Time
	9/9/11	15:26		9/9/11	1526
Company: HTA			Company: ATL		
Relinquished by:	Date	Time	Received by:	Date	Time
Company:			Company:		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ received good condition/cold
- ☐ custody seals secure
- ☐ conforms to COC document

Shipment Method: DELIVER

Send Results to: STEVE NETTO

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

Carmen Aguila

From: Marcos Rodriguez [MRODRIGUEZ@HARGIS.COM]
Sent: Monday, September 12, 2011 11:02 AM
To: Fernando Diwa
Cc: Carmen Aguila; Rachelle Arada
Subject: RE: RAYTHEON-FULLERTON-MONTHLY, 532.15

Fernando-

Thanks for the notification. We do want to have that sample analyzed for VOCs.

Thank you.

Marcos Rodriguez, PE
Engineer
HARGIS + ASSOCIATES, INC.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Phone: (858) 455-6500 x155
Fax: (858) 410-7455

From: Fernando Diwa [mailto:fernando@atlglobal.com]
Sent: Monday, September 12, 2011 11:02 AM
To: Marcos Rodriguez
Cc: Carmen Aguila; Rachelle Arada
Subject: RAYTHEON-FULLERTON-MONTHLY, 532.15

Hi Marcos,

The sample "TB-090911" was not marked for analysis. Do you want this sample to be analyzed for 8260 VOCs? See attached coc. Please advise.

Regards,

Fernando Diwa

Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 236
Fax: (562) 989-8807

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Nevada and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

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APPENDIX A

LABORATORY ANALYTICAL REPORTS
(FOURTH QUARTER 2011)

GROUNDWATER SAMPLING ANALYTICAL RESULTS

November 03, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120593

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on November 01, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	120593	**Collection Date:**	11/1/2011 2:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120593-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,1,1-Trichloroethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,1,2,2-Tetrachloroethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,1,2-Trichloroethane	11	2.5		µg/L	5	11/3/2011 01:18 PM
1,1-Dichloroethane	29	2.5		µg/L	5	11/3/2011 01:18 PM
1,1-Dichloroethene	1600	50		µg/L	100	11/2/2011 07:55 PM
1,1-Dichloropropene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2,3-Trichlorobenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2,3-Trichloropropane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2,4-Trichlorobenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2,4-Trimethylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2-Dibromo-3-chloropropane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2-Dibromoethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2-Dichlorobenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,2-Dichloroethane	4.9	2.5		µg/L	5	11/3/2011 01:18 PM
1,2-Dichloropropane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,3,5-Trimethylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,3-Dichlorobenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,3-Dichloropropane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
1,4-Dichlorobenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
2,2-Dichloropropane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
2-Chlorotoluene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
4-Chlorotoluene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
4-Isopropyltoluene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Benzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Bromobenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Bromodichloromethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Bromoform	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Bromomethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Carbon tetrachloride	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Chlorobenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Chloroethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Chloroform	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Chloromethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
cis-1,2-Dichloroethene	ND	2.5		µg/L	5	11/3/2011 01:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	120593	**Collection Date:**	11/1/2011 2:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120593-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Dibromochloromethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Dibromomethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Dichlorodifluoromethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Ethylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Hexachlorobutadiene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Isopropylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
m,p-Xylene	ND	5.0		µg/L	5	11/3/2011 01:18 PM
Methylene chloride	ND	5.0		µg/L	5	11/3/2011 01:18 PM
n-Butylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
n-Propylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Naphthalene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
o-Xylene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
sec-Butylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Styrene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
tert-Butylbenzene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Tetrachloroethene	5.6	2.5		µg/L	5	11/3/2011 01:18 PM
Toluene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
trans-1,2-Dichloroethene	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Trichloroethene	22	2.5		µg/L	5	11/3/2011 01:18 PM
Trichlorofluoromethane	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Vinyl chloride	ND	2.5		µg/L	5	11/3/2011 01:18 PM
Surr: 1,2-Dichloroethane-d4	123	70-130		%REC	5	11/3/2011 01:18 PM
Surr: 1,2-Dichloroethane-d4	125	70-130		%REC	100	11/2/2011 07:55 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	5	11/3/2011 01:18 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%REC	100	11/2/2011 07:55 PM
Surr: Dibromofluoromethane	114	70-130		%REC	5	11/3/2011 01:18 PM
Surr: Dibromofluoromethane	115	70-130		%REC	100	11/2/2011 07:55 PM
Surr: Toluene-d8	112	70-130		%REC	100	11/2/2011 07:55 PM
Surr: Toluene-d8	111	70-130		%REC	5	11/3/2011 01:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-21
Lab Order:	120593	**Collection Date:**	11/1/2011 2:42:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120593-001B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS 13_111102A	QC Batch: 76687			PrepDate: 11/1/2011		Analyst: **JSD**
1,4-Dioxane	390	2.0		µg/L	1	11/2/2011 04:53 PM
Surr: 1,2-Dichlorobenzene-d4	79.8	46-97		%REC	1	11/2/2011 04:53 PM
Surr: 2,4,6-Tribromophenol	76.8	59-124		%REC	1	11/2/2011 04:53 PM
Surr: 2-Chlorophenol-d4	70.4	49-93		%REC	1	11/2/2011 04:53 PM
Surr: 2-Fluorobiphenyl	80.7	57-107		%REC	1	11/2/2011 04:53 PM
Surr: 2-Fluorophenol	40.2	27-60		%REC	1	11/2/2011 04:53 PM
Surr: 4-Terphenyl-d14	78.0	69-132		%REC	1	11/2/2011 04:53 PM
Surr: Nitrobenzene-d5	80.8	52-107		%REC	1	11/2/2011 04:53 PM
Surr: Phenol-d5	28.5	15-50		%REC	1	11/2/2011 04:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **LCSW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.260	0.50	20.00	0	81.3	70	130				
Benzene	35.570	0.50	40.00	0	88.9	70	130				
Chlorobenzene	19.160	0.50	20.00	0	95.8	70	130				
MTBE	20.280	0.50	20.00	0	101	70	130				
Toluene	37.660	0.50	40.00	0	94.2	70	130				
Trichloroethene	19.040	0.50	20.00	0	95.2	70	130				
Surr: 1,2-Dichloroethane-d4	26.740		25.00		107	70	130				
Surr: 4-Bromofluorobenzene	26.200		25.00		105	70	130				
Surr: Dibromofluoromethane	25.210		25.00		101	70	130				
Surr: Toluene-d8	26.470		25.00		106	70	130				

Sample ID: **A111102LCSD** SampType: **LCSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **LCSS02** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.010	0.50	20.00	0	75.0	70	130	16.26	7.99	20	
Benzene	35.610	0.50	40.00	0	89.0	70	130	35.57	0.112	20	
Chlorobenzene	18.950	0.50	20.00	0	94.8	70	130	19.16	1.10	20	
MTBE	20.320	0.50	20.00	0	102	70	130	20.28	0.197	20	
Toluene	37.610	0.50	40.00	0	94.0	70	130	37.66	0.133	20	
Trichloroethene	18.470	0.50	20.00	0	92.4	70	130	19.04	3.04	20	
Surr: 1,2-Dichloroethane-d4	27.290		25.00		109	70	130		0	0	
Surr: 4-Bromofluorobenzene	26.490		25.00		106	70	130		0	0	
Surr: Dibromofluoromethane	25.550		25.00		102	70	130		0	0	
Surr: Toluene-d8	27.240		25.00		109	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **PBW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **PBW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	28.420		25.00		114	70	130				
Surr: 4-Bromofluorobenzene	24.990		25.00		100	70	130				
Surr: Dibromofluoromethane	27.060		25.00		108	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **PBW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	27.340		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **LCSW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.780	0.50	20.00	0	83.9	70	130				
Benzene	37.140	0.50	40.00	0	92.8	70	130				
Chlorobenzene	19.990	0.50	20.00	0	100	70	130				
MTBE	20.720	0.50	20.00	0	104	70	130				
Toluene	39.060	0.50	40.00	0	97.6	70	130				
Trichloroethene	19.630	0.50	20.00	0	98.2	70	130				
Surr: 1,2-Dichloroethane-d4	29.400		25.00		118	70	130				
Surr: 4-Bromofluorobenzene	25.890		25.00		104	70	130				
Surr: Dibromofluoromethane	27.110		25.00		108	70	130				
Surr: Toluene-d8	27.780		25.00		111	70	130				

Sample ID: **A111103LCSD** SampType: **LCSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **LCSS02** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.890	0.50	20.00	0	79.4	70	130	16.78	5.45	20	
Benzene	36.040	0.50	40.00	0	90.1	70	130	37.14	3.01	20	
Chlorobenzene	19.030	0.50	20.00	0	95.2	70	130	19.99	4.92	20	
MTBE	20.650	0.50	20.00	0	103	70	130	20.72	0.338	20	
Toluene	37.650	0.50	40.00	0	94.1	70	130	39.06	3.68	20	
Trichloroethene	18.580	0.50	20.00	0	92.9	70	130	19.63	5.50	20	
Surr: 1,2-Dichloroethane-d4	29.080		25.00		116	70	130		0	0	
Surr: 4-Bromofluorobenzene	25.450		25.00		102	70	130		0	0	
Surr: Dibromofluoromethane	26.820		25.00		107	70	130		0	0	
Surr: Toluene-d8	27.900		25.00		112	70	130		0	0	

Sample ID: **A111103MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **PBW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **PBW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **PBW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	29.910		25.00		120	70	130				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	70	130				
Surr: Dibromofluoromethane	28.260		25.00		113	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **PBW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	27.740		25.00		111	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **MB-76687** SampType: **MBLK** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **PBW** Batch ID: **76687** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	2.0									
Surr: 1,2-Dichlorobenzene-d4	75.880		100.0		75.9	46	97				
Surr: 2,4,6-Tribromophenol	79.350		100.0		79.4	59	124				
Surr: 2-Chlorophenol-d4	65.820		100.0		65.8	49	93				
Surr: 2-Fluorobiphenyl	79.270		100.0		79.3	57	107				
Surr: 2-Fluorophenol	35.470		100.0		35.5	27	60				
Surr: 4-Terphenyl-d14	83.270		100.0		83.3	69	132				
Surr: Nitrobenzene-d5	76.230		100.0		76.2	52	107				
Surr: Phenol-d5	25.380		100.0		25.4	15	50				

Sample ID: **LCS-76687** SampType: **LCS** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSW** Batch ID: **76687** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	95.430	2.0	100.0	0	95.4	70	130				
Surr: 1,2-Dichlorobenzene-d4	70.420		100.0		70.4	46	97				
Surr: 2,4,6-Tribromophenol	87.430		100.0		87.4	59	124				
Surr: 2-Chlorophenol-d4	63.570		100.0		63.6	49	93				
Surr: 2-Fluorobiphenyl	81.340		100.0		81.3	57	107				
Surr: 2-Fluorophenol	34.140		100.0		34.1	27	60				
Surr: 4-Terphenyl-d14	89.180		100.0		89.2	69	132				
Surr: Nitrobenzene-d5	76.120		100.0		76.1	52	107				
Surr: Phenol-d5	26.870		100.0		26.9	15	50				

Sample ID: **LCSD-76687** SampType: **LCSD** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSS02** Batch ID: **76687** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	100.130	2.0	100.0	0	100	70	130	95.43	4.81	20	
Surr: 1,2-Dichlorobenzene-d4	72.930		100.0		72.9	46	97		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120593
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **LCSD-76687** SampType: **LCSD** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSS02** Batch ID: **76687** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	89.740		100.0		89.7	59	124		0	0	
Surr: 2-Chlorophenol-d4	67.490		100.0		67.5	49	93		0	0	
Surr: 2-Fluorobiphenyl	84.180		100.0		84.2	57	107		0	0	
Surr: 2-Fluorophenol	38.000		100.0		38.0	27	60		0	0	
Surr: 4-Terphenyl-d14	95.790		100.0		95.8	69	132		0	0	
Surr: Nitrobenzene-d5	78.480		100.0		78.5	52	107		0	0	
Surr: Phenol-d5	29.000		100.0		29.0	15	50		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/1/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Beam, Dan Mora	SAMPLER (PRINTED): Amanda Beam, Dan Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L AMber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	Rush results (48 hr TAT)	LABORATORY INFORMATION / REMARKS
																								~~Exova~~ ATL RACHELLE ALADA
	MW-21	11/1/11	1442		X			X				X	3		X						X		X	CROSS REFRACE TB-110111 FROM OTHER COC FOR TASK # 532.30
	↓	↓	1442		X							X		1	~~NO~~ X	X							X	

Total number of Containers per analysis: 3 | 1

Total No. of Containers: 4

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	11/1/11	1456	HTA, IWC		11/1/11	14:56	HTA
	11/1/11	16:00	HTA		11/1/11	16:00	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ received good condition/cold
- ☐ custody seals secure
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

November 16, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120606

RE: RAYTHEON MAIN, 532.30

Attention: Steve Netto

Enclosed are the results for sample(s) received on November 01, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: RAYTHEON MAIN, 532.30
Lab Order: 120606

CASE NARRATIVE

Analytical Comments for EPA 8260B

Sample 120606-005A, surrogate recovery biased high possibly due to matrix interferences.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-110111
Lab Order:	120606	**Collection Date:**	11/1/2011 7:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Benzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Bromobenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Bromoform	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Bromomethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Chlorobenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Chloroethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Chloroform	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Chloromethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 07:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-110111
Lab Order:	120606	**Collection Date:**	11/1/2011 7:00:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Dibromomethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Ethylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
m,p-Xylene	ND	1.0		µg/L	1	11/3/2011 07:50 PM
Methylene chloride	ND	1.0		µg/L	1	11/3/2011 07:50 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Naphthalene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
o-Xylene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Styrene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Toluene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Trichloroethene	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Vinyl chloride	ND	0.50		µg/L	1	11/3/2011 07:50 PM
Surr: 1,2-Dichloroethane-d4	125	70-130		%REC	1	11/3/2011 07:50 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	11/3/2011 07:50 PM
Surr: Dibromofluoromethane	115	70-130		%REC	1	11/3/2011 07:50 PM
Surr: Toluene-d8	111	70-130		%REC	1	11/3/2011 07:50 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	120606	**Collection Date:**	11/1/2011 10:04:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Benzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Bromobenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Bromoform	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Bromomethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Chlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Chloroethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Chloroform	6.5	0.50		µg/L	1	11/3/2011 08:10 PM
Chloromethane	0.59	0.50		µg/L	1	11/3/2011 08:10 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 08:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	120606	**Collection Date:**	11/1/2011 10:04:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Dibromomethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Ethylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
m,p-Xylene	ND	1.0		µg/L	1	11/3/2011 08:10 PM
Methylene chloride	ND	1.0		µg/L	1	11/3/2011 08:10 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Naphthalene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
o-Xylene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Styrene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Toluene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Trichloroethene	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Vinyl chloride	ND	0.50		µg/L	1	11/3/2011 08:10 PM
Surr: 1,2-Dichloroethane-d4	126	70-130		%REC	1	11/3/2011 08:10 PM
Surr: 4-Bromofluorobenzene	99.2	70-130		%REC	1	11/3/2011 08:10 PM
Surr: Dibromofluoromethane	115	70-130		%REC	1	11/3/2011 08:10 PM
Surr: Toluene-d8	110	70-130		%REC	1	11/3/2011 08:10 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35A
Lab Order:	120606	**Collection Date:**	11/1/2011 10:04:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_111108A	QC Batch: 76761			PrepDate: 11/4/2011		Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	11/8/2011 11:50 AM
Surr: 1,2-Dichlorobenzene-d4	88.7	58-99		%REC	1	11/8/2011 11:50 AM
Surr: 2-Fluorobiphenyl	89.4	60-104		%REC	1	11/8/2011 11:50 AM
Surr: 4-Terphenyl-d14	106	65-127		%REC	1	11/8/2011 11:50 AM
Surr: Nitrobenzene-d5	116	50-136		%REC	1	11/8/2011 11:50 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	120606	**Collection Date:**	11/1/2011 10:56:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Benzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Bromobenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Bromoform	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Bromomethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Chlorobenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Chloroethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Chloroform	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Chloromethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 08:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	120606	**Collection Date:**	11/1/2011 10:56:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-003A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Dibromomethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Ethylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
m,p-Xylene	ND	1.0		µg/L	1	11/3/2011 08:30 PM
Methylene chloride	ND	1.0		µg/L	1	11/3/2011 08:30 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Naphthalene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
o-Xylene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Styrene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Toluene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Trichloroethene	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Vinyl chloride	ND	0.50		µg/L	1	11/3/2011 08:30 PM
Surr: 1,2-Dichloroethane-d4	127	70-130		%REC	1	11/3/2011 08:30 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%REC	1	11/3/2011 08:30 PM
Surr: Dibromofluoromethane	115	70-130		%REC	1	11/3/2011 08:30 PM
Surr: Toluene-d8	111	70-130		%REC	1	11/3/2011 08:30 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35B
Lab Order:	120606	**Collection Date:**	11/1/2011 10:56:00 AM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-003B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_111108A	QC Batch: 76761			PrepDate: 11/4/2011		Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	11/8/2011 12:18 PM
Surr: 1,2-Dichlorobenzene-d4	95.2	58-99		%REC	1	11/8/2011 12:18 PM
Surr: 2-Fluorobiphenyl	90.0	60-104		%REC	1	11/8/2011 12:18 PM
Surr: 4-Terphenyl-d14	104	65-127		%REC	1	11/8/2011 12:18 PM
Surr: Nitrobenzene-d5	109	50-136		%REC	1	11/8/2011 12:18 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	120606	**Collection Date:**	11/1/2011 12:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111107A QC Batch: A11VW216 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Benzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Bromobenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Bromoform	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Bromomethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Chlorobenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Chloroethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Chloroform	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Chloromethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/7/2011 01:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	120606	**Collection Date:**	11/1/2011 12:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111107A QC Batch: A11VW216 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Dibromomethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Ethylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
m,p-Xylene	ND	1.0		µg/L	1	11/7/2011 01:44 PM
Methylene chloride	ND	1.0		µg/L	1	11/7/2011 01:44 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Naphthalene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
o-Xylene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Styrene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Toluene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Trichloroethene	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Vinyl chloride	ND	0.50		µg/L	1	11/7/2011 01:44 PM
Surr: 1,2-Dichloroethane-d4	125	70-130		%REC	1	11/7/2011 01:44 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	11/7/2011 01:44 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	11/7/2011 01:44 PM
Surr: Toluene-d8	112	70-130		%REC	1	11/7/2011 01:44 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-35C
Lab Order:	120606	**Collection Date:**	11/1/2011 12:40:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_111108A	QC Batch: 76761			PrepDate: 11/4/2011		Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	11/8/2011 12:47 PM
Surr: 1,2-Dichlorobenzene-d4	91.7	58-99		%REC	1	11/8/2011 12:47 PM
Surr: 2-Fluorobiphenyl	86.5	60-104		%REC	1	11/8/2011 12:47 PM
Surr: 4-Terphenyl-d14	111	65-127		%REC	1	11/8/2011 12:47 PM
Surr: Nitrobenzene-d5	103	50-136		%REC	1	11/8/2011 12:47 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	120606	**Collection Date:**	11/1/2011 2:23:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111107A QC Batch: A11VW216 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,1,2-Trichloroethane	0.64	0.50		µg/L	1	11/7/2011 02:04 PM
1,1-Dichloroethane	1.6	0.50		µg/L	1	11/7/2011 02:04 PM
1,1-Dichloroethene	82	5.0		µg/L	10	11/7/2011 04:46 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Benzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Bromobenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Bromoform	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Bromomethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Chlorobenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Chloroethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Chloroform	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Chloromethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/7/2011 02:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	120606	**Collection Date:**	11/1/2011 2:23:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111107A QC Batch: A11VW216 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Dibromomethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Ethylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
m,p-Xylene	ND	1.0		µg/L	1	11/7/2011 02:04 PM
Methylene chloride	ND	1.0		µg/L	1	11/7/2011 02:04 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Naphthalene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
o-Xylene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Styrene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Toluene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Trichloroethene	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Vinyl chloride	ND	0.50		µg/L	1	11/7/2011 02:04 PM
Surr: 1,2-Dichloroethane-d4	126	70-130		%REC	1	11/7/2011 02:04 PM
Surr: 1,2-Dichloroethane-d4	132	70-130	S	%REC	10	11/7/2011 04:46 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	11/7/2011 02:04 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	10	11/7/2011 04:46 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	11/7/2011 02:04 PM
Surr: Dibromofluoromethane	117	70-130		%REC	10	11/7/2011 04:46 PM
Surr: Toluene-d8	111	70-130		%REC	10	11/7/2011 04:46 PM
Surr: Toluene-d8	112	70-130		%REC	1	11/7/2011 02:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-01
Lab Order:	120606	**Collection Date:**	11/1/2011 2:23:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-005B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS 13_111102A	QC Batch: 76687			PrepDate: 11/1/2011		Analyst: **JSD**
1,4-Dioxane	54	2.0		µg/L	1	11/2/2011 04:25 PM
Surr: 1,2-Dichlorobenzene-d4	84.6	46-97		%REC	1	11/2/2011 04:25 PM
Surr: 2,4,6-Tribromophenol	82.0	59-124		%REC	1	11/2/2011 04:25 PM
Surr: 2-Chlorophenol-d4	74.8	49-93		%REC	1	11/2/2011 04:25 PM
Surr: 2-Fluorobiphenyl	84.5	57-107		%REC	1	11/2/2011 04:25 PM
Surr: 2-Fluorophenol	42.8	27-60		%REC	1	11/2/2011 04:25 PM
Surr: 4-Terphenyl-d14	81.3	69-132		%REC	1	11/2/2011 04:25 PM
Surr: Nitrobenzene-d5	85.4	52-107		%REC	1	11/2/2011 04:25 PM
Surr: Phenol-d5	31.0	15-50		%REC	1	11/2/2011 04:25 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	120606	**Collection Date:**	11/1/2011 5:34:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Benzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Bromobenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Bromoform	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Bromomethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Chlorobenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Chloroethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Chloroform	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Chloromethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 09:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	120606	**Collection Date:**	11/1/2011 5:34:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111103A QC Batch: A11VW214 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Dibromomethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Ethylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
m,p-Xylene	ND	1.0		µg/L	1	11/3/2011 09:29 PM
Methylene chloride	ND	1.0		µg/L	1	11/3/2011 09:29 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Naphthalene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
o-Xylene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Styrene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Toluene	9.1	0.50		µg/L	1	11/3/2011 09:29 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Trichloroethene	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Vinyl chloride	ND	0.50		µg/L	1	11/3/2011 09:29 PM
Surr: 1,2-Dichloroethane-d4	129	70-130		%REC	1	11/3/2011 09:29 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	11/3/2011 09:29 PM
Surr: Dibromofluoromethane	116	70-130		%REC	1	11/3/2011 09:29 PM
Surr: Toluene-d8	110	70-130		%REC	1	11/3/2011 09:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	MW-26C
Lab Order:	120606	**Collection Date:**	11/1/2011 5:34:00 PM
Project:	RAYTHEON MAIN, 532.30	**Matrix:**	GROUNDWATER
Lab ID:	120606-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_111108A	QC Batch: 76761			PrepDate: 11/4/2011		Analyst: **JSD**
1,4-Dioxane	ND	0.20		µg/L	1	11/8/2011 01:15 PM
Surr: 1,2-Dichlorobenzene-d4	90.8	58-99		%REC	1	11/8/2011 01:15 PM
Surr: 2-Fluorobiphenyl	89.4	60-104		%REC	1	11/8/2011 01:15 PM
Surr: 4-Terphenyl-d14	107	65-127		%REC	1	11/8/2011 01:15 PM
Surr: Nitrobenzene-d5	104	50-136		%REC	1	11/8/2011 01:15 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **LCSW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.780	0.50	20.00	0	83.9	70	130				
Benzene	37.140	0.50	40.00	0	92.8	70	130				
Chlorobenzene	19.990	0.50	20.00	0	100	70	130				
MTBE	20.720	0.50	20.00	0	104	70	130				
Toluene	39.060	0.50	40.00	0	97.6	70	130				
Trichloroethene	19.630	0.50	20.00	0	98.2	70	130				
Surr: 1,2-Dichloroethane-d4	29.400		25.00		118	70	130				
Surr: 4-Bromofluorobenzene	25.890		25.00		104	70	130				
Surr: Dibromofluoromethane	27.110		25.00		108	70	130				
Surr: Toluene-d8	27.780		25.00		111	70	130				

Sample ID: **A111103LCSD** SampType: **LCSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **LCSS02** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.890	0.50	20.00	0	79.4	70	130	16.78	5.45	20	
Benzene	36.040	0.50	40.00	0	90.1	70	130	37.14	3.01	20	
Chlorobenzene	19.030	0.50	20.00	0	95.2	70	130	19.99	4.92	20	
MTBE	20.650	0.50	20.00	0	103	70	130	20.72	0.338	20	
Toluene	37.650	0.50	40.00	0	94.1	70	130	39.06	3.68	20	
Trichloroethene	18.580	0.50	20.00	0	92.9	70	130	19.63	5.50	20	
Surr: 1,2-Dichloroethane-d4	29.080		25.00		116	70	130		0	0	
Surr: 4-Bromofluorobenzene	25.450		25.00		102	70	130		0	0	
Surr: Dibromofluoromethane	26.820		25.00		107	70	130		0	0	
Surr: Toluene-d8	27.900		25.00		112	70	130		0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **PBW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **PBW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	29.910		25.00		120	70	130				
Surr: 4-Bromofluorobenzene	24.670		25.00		98.7	70	130				
Surr: Dibromofluoromethane	28.260		25.00		113	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111103MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138126**
Client ID: **PBW** Batch ID: **A11VW214** TestNo: **EPA 8260B** Analysis Date: **11/3/2011** SeqNo: **2270380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	27.740		25.00		111	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111107LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138258**
Client ID: **LCSW** Batch ID: **A11VW216** TestNo: **EPA 8260B** Analysis Date: **11/7/2011** SeqNo: **2272707**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.980	0.50	20.00	0	89.9	70	130				
Benzene	37.630	0.50	40.00	0	94.1	70	130				
Chlorobenzene	20.240	0.50	20.00	0	101	70	130				
MTBE	21.490	0.50	20.00	0	107	70	130				
Toluene	39.850	0.50	40.00	0	99.6	70	130				
Trichloroethene	20.190	0.50	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	31.470		25.00		126	70	130				
Surr: 4-Bromofluorobenzene	27.190		25.00		109	70	130				
Surr: Dibromofluoromethane	28.120		25.00		112	70	130				
Surr: Toluene-d8	28.140		25.00		113	70	130				

Sample ID: **A111107LCSD** SampType: **LCSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138258**
Client ID: **LCSS02** Batch ID: **A11VW216** TestNo: **EPA 8260B** Analysis Date: **11/7/2011** SeqNo: **2272708**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	17.750	0.50	20.00	0	88.8	70	130	17.98	1.29	20	
Benzene	37.650	0.50	40.00	0	94.1	70	130	37.63	0.0531	20	
Chlorobenzene	20.110	0.50	20.00	0	101	70	130	20.24	0.644	20	
MTBE	21.960	0.50	20.00	0	110	70	130	21.49	2.16	20	
Toluene	39.960	0.50	40.00	0	99.9	70	130	39.85	0.276	20	
Trichloroethene	20.260	0.50	20.00	0	101	70	130	20.19	0.346	20	
Surr: 1,2-Dichloroethane-d4	30.640		25.00		123	70	130		0	0	
Surr: 4-Bromofluorobenzene	26.190		25.00		105	70	130		0	0	
Surr: Dibromofluoromethane	27.310		25.00		109	70	130		0	0	
Surr: Toluene-d8	27.890		25.00		112	70	130		0	0	

Sample ID: **A111107MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138258**
Client ID: **PBW** Batch ID: **A11VW216** TestNo: **EPA 8260B** Analysis Date: **11/7/2011** SeqNo: **2272709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111107MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138258**
Client ID: **PBW** Batch ID: **A11VW216** TestNo: **EPA 8260B** Analysis Date: **11/7/2011** SeqNo: **2272709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111107MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138258**
Client ID: **PBW** Batch ID: **A11VW216** TestNo: **EPA 8260B** Analysis Date: **11/7/2011** SeqNo: **2272709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	30.420		25.00		122	70	130				
Surr: 4-Bromofluorobenzene	25.630		25.00		103	70	130				
Surr: Dibromofluoromethane	28.320		25.00		113	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111107MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138258**
Client ID: **PBW** Batch ID: **A11VW216** TestNo: **EPA 8260B** Analysis Date: **11/7/2011** SeqNo: **2272709**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	28.250		25.00		113	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **MB-76687** SampType: **MBLK** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **PBW** Batch ID: **76687** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	2.0									
Surr: 1,2-Dichlorobenzene-d4	75.880		100.0		75.9	46	97				
Surr: 2,4,6-Tribromophenol	79.350		100.0		79.4	59	124				
Surr: 2-Chlorophenol-d4	65.820		100.0		65.8	49	93				
Surr: 2-Fluorobiphenyl	79.270		100.0		79.3	57	107				
Surr: 2-Fluorophenol	35.470		100.0		35.5	27	60				
Surr: 4-Terphenyl-d14	83.270		100.0		83.3	69	132				
Surr: Nitrobenzene-d5	76.230		100.0		76.2	52	107				
Surr: Phenol-d5	25.380		100.0		25.4	15	50				

Sample ID: **LCS-76687** SampType: **LCS** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSW** Batch ID: **76687** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	95.430	2.0	100.0	0	95.4	70	130				
Surr: 1,2-Dichlorobenzene-d4	70.420		100.0		70.4	46	97				
Surr: 2,4,6-Tribromophenol	87.430		100.0		87.4	59	124				
Surr: 2-Chlorophenol-d4	63.570		100.0		63.6	49	93				
Surr: 2-Fluorobiphenyl	81.340		100.0		81.3	57	107				
Surr: 2-Fluorophenol	34.140		100.0		34.1	27	60				
Surr: 4-Terphenyl-d14	89.180		100.0		89.2	69	132				
Surr: Nitrobenzene-d5	76.120		100.0		76.1	52	107				
Surr: Phenol-d5	26.870		100.0		26.9	15	50				

Sample ID: **LCSD-76687** SampType: **LCSD** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSS02** Batch ID: **76687** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	100.130	2.0	100.0	0	100	70	130	95.43	4.81	20	
Surr: 1,2-Dichlorobenzene-d4	72.930		100.0		72.9	46	97		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **LCSD-76687** SampType: **LCSD** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSS02** Batch ID: **76687** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	89.740		100.0		89.7	59	124		0	0	
Surr: 2-Chlorophenol-d4	67.490		100.0		67.5	49	93		0	0	
Surr: 2-Fluorobiphenyl	84.180		100.0		84.2	57	107		0	0	
Surr: 2-Fluorophenol	38.000		100.0		38.0	27	60		0	0	
Surr: 4-Terphenyl-d14	95.790		100.0		95.8	69	132		0	0	
Surr: Nitrobenzene-d5	78.480		100.0		78.5	52	107		0	0	
Surr: Phenol-d5	29.000		100.0		29.0	15	50		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-76761** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **PBW** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.892		1.000		89.2	58	99				
Surr: 2-Fluorobiphenyl	0.888		1.000		88.8	60	104				
Surr: 4-Terphenyl-d14	1.130		1.000		113	65	127				
Surr: Nitrobenzene-d5	1.052		1.000		105	50	136				

Sample ID: **LCS-76761** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **LCSW** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.868	0.20	1.000	0	86.8	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.808		1.000		80.8	58	99				
Surr: 2-Fluorobiphenyl	0.794		1.000		79.4	60	104				
Surr: 4-Terphenyl-d14	0.991		1.000		99.1	65	127				
Surr: Nitrobenzene-d5	0.932		1.000		93.2	50	136				

Sample ID: **120606-006BMS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **MW-26C** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.905	0.20	1.000	0.06982	83.5	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.867		1.000		86.7	58	99				
Surr: 2-Fluorobiphenyl	0.821		1.000		82.1	60	104				
Surr: 4-Terphenyl-d14	0.941		1.000		94.1	65	127				
Surr: Nitrobenzene-d5	1.055		1.000		105	50	136				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120606
Project: RAYTHEON MAIN, 532.30

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **120606-006BMSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **MW-26C** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.144	0.20	1.000	0.06982	107	70	130	0.9050	23.4	30	
Surr: 1,2-Dichlorobenzene-d4	0.846		1.000		84.6	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.785		1.000		78.5	60	104		0	0	
Surr: 4-Terphenyl-d14	0.895		1.000		89.5	65	127		0	0	
Surr: Nitrobenzene-d5	1.021		1.000		102	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/1/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Beam, Daniel Mora	SAMPLER (PRINTED): Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	MS/MSD	REMARKS
	TB-110111	11/1/11	700		X			X				X	2		X			X						
	MW-35A		1004		X			X				X	3		X			X						
	↓		↓		X							X		1		X								
	MW-35B		1056		X			X				X	3		X			X						
	↓		↓		X							X		1		X								
	MW-35C		1240		X			X				X	3		X			X						
	↓		↓		X							X		1		X								
	EW-01		1423		X			X				X	3		X			X						
	↓	↓	↓		X							X		1			X							
	MW-26C	11/1/11	1734		X			X				X	3		X							X	MS and MSD	
	↓	↓	↓		X							X		1		X						X	collected for VOCs ± 1,4 Dioxane	

Total number of Containers per analysis: ~~15~~ 16 ~~14~~ 15 3 = 22

Total No. of Containers: ~~15~~ ~~14~~ 22

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
Amanda Beam	11/1/11	1737 ~~1727~~	H+A, Inc	[illegible]	11/2/11	~~1727~~ 1737	ATL
[illegible]	11/1/11	1818	ATL	Mary [illegible]	11/1/11	18:18	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold

☐ custody seals secure ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375, SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124, MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220, TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

LABORATORY INFORMATION

ATL
Attn: Rachelle Arada

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

16 November 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(619) 521-8580

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

RE: ATL Work Order Number : 1100023
Client Reference : RAYTHEON MAIN, 532.30

Enclosed are the results for sample(s) received on November, 2 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-110211	1100023-01	Lab H2O	11/02/11 7:25	11/02/11 17:45
MW-34C	1100023-02	Groundwater	11/02/11 9:01	11/02/11 17:45
MW-34A	1100023-03	Groundwater	11/02/11 9:45	11/02/11 17:45
MW-34B	1100023-04	Groundwater	11/02/11 10:18	11/02/11 17:45
MW-33	1100023-05	Groundwater	11/02/11 13:02	11/02/11 17:45
MW-30A	1100023-06	Groundwater	11/02/11 14:38	11/02/11 17:45
MW-30B	1100023-07	Groundwater	11/02/11 15:15	11/02/11 17:45
MW-3000B	1100023-08	Groundwater	11/02/11 15:35	11/02/11 17:45

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/16/2011

Client Sample ID TB-110211
Lab ID: 1100023-01

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,1-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
2-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
4-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Benzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Bromobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Bromodichloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Bromoform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Bromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Carbon tetrachloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Chlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Chloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Chloroform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Chloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID TB-110211

Lab ID: 1100023-01

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Dibromochloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Dibromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Ethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Isopropylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
m,p-Xylene	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Methylene chloride	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
n-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
n-Propylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Naphthalene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
o-Xylene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
sec-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Styrene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
tert-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Tetrachloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Toluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Trichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Vinyl chloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:24	
Surrogate: 1,2-Dichloroethane-d4	*115 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:24*	
Surrogate: 4-Bromofluorobenzene	*98.4 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:24*	
Surrogate: Dibromofluoromethane	*115 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:24*	
Surrogate: Toluene-d8	*115 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:24*	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-34C

Lab ID: 1100023-02

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,1-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
2-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
4-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Benzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Bromobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Bromodichloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Bromoform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Bromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Carbon tetrachloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Chlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Chloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Chloroform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Chloromethane	**0.5**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-34C

Lab ID: 1100023-02

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Dibromochloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Dibromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Ethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Isopropylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
m,p-Xylene	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Methylene chloride	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
n-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
n-Propylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Naphthalene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
o-Xylene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
sec-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Styrene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
tert-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Tetrachloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Toluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Trichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Vinyl chloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 19:44	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:44*	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:44*	
Surrogate: Dibromofluoromethane	*116 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:44*	
Surrogate: Toluene-d8	*115 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 19:44*	

Hargis & Associates, Inc.		
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San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-34C

Lab ID: 1100023-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.2	0.1	1	B1K0068	11/08/2011	11/08/11 23:55	
Surrogate: 1,2-Dichlorobenzene-d4	*83.4 %*	*58 - 99*			B1K0068	11/08/2011	*11/08/11 23:55*	
Surrogate: 2-Fluorobiphenyl	*84.3 %*	*60 - 104*			B1K0068	11/08/2011	*11/08/11 23:55*	
Surrogate: 4-Terphenyl-d14	*95.8 %*	*65 - 127*			B1K0068	11/08/2011	*11/08/11 23:55*	
Surrogate: Nitrobenzene-d5	*99.1 %*	*50 - 136*			B1K0068	11/08/2011	*11/08/11 23:55*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/16/2011

Client Sample ID MW-34A
Lab ID: 1100023-03

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,1-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
2-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
4-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Benzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Bromobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Bromodichloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Bromoform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Bromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Carbon tetrachloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Chlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Chloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Chloroform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Chloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	

Hargis & Associates, Inc.		
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San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-34A

Lab ID: 1100023-03

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Dibromochloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Dibromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Ethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Isopropylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
m,p-Xylene	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Methylene chloride	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
n-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
n-Propylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Naphthalene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
o-Xylene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
sec-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Styrene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
tert-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Tetrachloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Toluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Trichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Vinyl chloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:03	
Surrogate: 1,2-Dichloroethane-d4	*121 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:03*	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:03*	
Surrogate: Dibromofluoromethane	*119 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:03*	
Surrogate: Toluene-d8	*115 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:03*	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-34A

Lab ID: 1100023-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique — Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 00:23	
Surrogate: 1,2-Dichlorobenzene-d4	*77.3 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 00:23*	
Surrogate: 2-Fluorobiphenyl	*75.4 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 00:23*	
Surrogate: 4-Terphenyl-d14	*94.0 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 00:23*	
Surrogate: Nitrobenzene-d5	*77.5 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 00:23*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/16/2011

Client Sample ID MW-34B
Lab ID: 1100023-04

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,1,2-Trichloroethane	**2.1**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,1-Dichloroethane	**6.3**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,1-Dichloroethene	**502**	5.0	NA	10	B1K0212	11/11/2011	11/11/11 01:00	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2-Dichloroethane	**1.2**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
2-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
4-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Benzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Bromobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Bromodichloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Bromoform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Bromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Carbon tetrachloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Chlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Chloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Chloroform	**0.5**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Chloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	

Hargis & Associates, Inc.		
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San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-34B

Lab ID: 1100023-04

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Dibromochloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Dibromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Ethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Isopropylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
m,p-Xylene	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Methylene chloride	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
n-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
n-Propylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Naphthalene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
o-Xylene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
sec-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Styrene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
tert-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Tetrachloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Toluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Trichloroethene	**0.7**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Vinyl chloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 20:23	
Surrogate: 1,2-Dichloroethane-d4	*82.4 %*	*70 - 130*			B1K0212	11/11/2011	*11/11/11 01:00*	
Surrogate: 1,2-Dichloroethane-d4	*123 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:23*	
Surrogate: 4-Bromofluorobenzene	*90.8 %*	*70 - 130*			B1K0212	11/11/2011	*11/11/11 01:00*	
Surrogate: 4-Bromofluorobenzene	*102 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:23*	
Surrogate: Dibromofluoromethane	*121 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:23*	
Surrogate: Dibromofluoromethane	*99.7 %*	*70 - 130*			B1K0212	11/11/2011	*11/11/11 01:00*	
Surrogate: Toluene-d8	*117 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 20:23*	
Surrogate: Toluene-d8	*111 %*	*70 - 130*			B1K0212	11/11/2011	*11/11/11 01:00*	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-34B

Lab ID: 1100023-04

1,4-Dioxane by EPA 8270: Isotope Dilution Technique Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**196**	2.0	1.7	1	B1K0073	11/08/2011	11/10/11 13:09	
Surrogate: 1,2-Dichlorobenzene-d4	*63.4 %*	*37 - 93*			B1K0073	11/08/2011	*11/10/11 13:09*	
Surrogate: 2-Fluorobiphenyl	*74.1 %*	*51 - 100*			B1K0073	11/08/2011	*11/10/11 13:09*	
Surrogate: 4-Terphenyl-d14	*86.9 %*	*58 - 113*			B1K0073	11/08/2011	*11/10/11 13:09*	
Surrogate: Nitrobenzene-d5	*73.0 %*	*39 - 95*			B1K0073	11/08/2011	*11/10/11 13:09*	

Hargis & Associates, Inc.
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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/16/2011

Client Sample ID MW-33
Lab ID: 1100023-05

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,1-Dichloroethene	**1.7**	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
2-Chlorotoluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
4-Chlorotoluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Benzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Bromobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Bromodichloromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Bromoform	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Bromomethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Carbon tetrachloride	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Chlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Chloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Chloroform	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Chloromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	

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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/16/2011

Client Sample ID MW-33
Lab ID: 1100023-05

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Dibromochloromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Dibromomethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Ethylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Isopropylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
m,p-Xylene	ND	1.0	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Methylene chloride	ND	1.0	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
n-Butylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
n-Propylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Naphthalene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
o-Xylene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
sec-Butylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Styrene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
tert-Butylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Tetrachloroethene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Toluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Trichloroethene	**0.5**	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Vinyl chloride	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:02	
Surrogate: 1,2-Dichloroethane-d4	*95.2 %*	*70 - 130*			B1K0188	11/11/2011	*11/11/11 19:02*	
Surrogate: 4-Bromofluorobenzene	*94.4 %*	*70 - 130*			B1K0188	11/11/2011	*11/11/11 19:02*	
Surrogate: Dibromofluoromethane	*104 %*	*70 - 130*			B1K0188	11/11/2011	*11/11/11 19:02*	
Surrogate: Toluene-d8	*113 %*	*70 - 130*			B1K0188	11/11/2011	*11/11/11 19:02*	

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Client Sample ID MW-33

Lab ID: 1100023-05

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique — Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 00:50	
Surrogate: 1,2-Dichlorobenzene-d4	*92.2 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 00:50*	
Surrogate: 2-Fluorobiphenyl	*91.0 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 00:50*	
Surrogate: 4-Terphenyl-d14	*97.8 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 00:50*	
Surrogate: Nitrobenzene-d5	*99.9 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 00:50*	

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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/16/2011

Client Sample ID MW-30A
Lab ID: 1100023-06

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,1-Dichloroethene	**0.5**	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
2-Chlorotoluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
4-Chlorotoluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Benzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Bromobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Bromodichloromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Bromoform	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Bromomethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Carbon tetrachloride	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Chlorobenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Chloroethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Chloroform	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Chloromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/16/2011

Client Sample ID MW-30A
Lab ID: 1100023-06

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Dibromochloromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Dibromomethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Ethylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Isopropylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
m,p-Xylene	ND	1.0	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Methylene chloride	ND	1.0	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
n-Butylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
n-Propylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Naphthalene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
o-Xylene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
sec-Butylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Styrene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
tert-Butylbenzene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Tetrachloroethene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Toluene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Trichloroethene	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Vinyl chloride	ND	0.5	NA	1	B1K0188	11/11/2011	11/11/11 19:27	
Surrogate: 1,2-Dichloroethane-d4	*96.1 %*		*70 - 130*		B1K0188	11/11/2011	*11/11/11 19:27*	
Surrogate: 4-Bromofluorobenzene	*94.8 %*		*70 - 130*		B1K0188	11/11/2011	*11/11/11 19:27*	
Surrogate: Dibromofluoromethane	*105 %*		*70 - 130*		B1K0188	11/11/2011	*11/11/11 19:27*	
Surrogate: Toluene-d8	*112 %*		*70 - 130*		B1K0188	11/11/2011	*11/11/11 19:27*	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-30A

Lab ID: 1100023-06

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.3**	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 01:17	
Surrogate: 1,2-Dichlorobenzene-d4	*78.3 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 01:17*	
Surrogate: 2-Fluorobiphenyl	*74.4 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 01:17*	
Surrogate: 4-Terphenyl-d14	*88.3 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 01:17*	
Surrogate: Nitrobenzene-d5	*77.6 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 01:17*	

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9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/16/2011

Client Sample ID MW-30B
Lab ID: 1100023-07

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,1-Dichloroethene	**13.6**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
2-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
4-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Benzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Bromobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Bromodichloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Bromoform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Bromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Carbon tetrachloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Chlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Chloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Chloroform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Chloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	

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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/16/2011

Client Sample ID MW-30B
Lab ID: 1100023-07

Volatile Organic Compounds by EPA 8260 — Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**4.2**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Dibromochloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Dibromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Ethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Isopropylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
m,p-Xylene	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Methylene chloride	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
n-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
n-Propylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Naphthalene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
o-Xylene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
sec-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Styrene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
tert-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Tetrachloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Toluene	**3.2**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Trichloroethene	**80.7**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Vinyl chloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:23	
Surrogate: 1,2-Dichloroethane-d4	*127 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:23*	
Surrogate: 4-Bromofluorobenzene	*101 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:23*	
Surrogate: Dibromofluoromethane	*117 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:23*	
Surrogate: Toluene-d8	*111 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:23*	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-30B

Lab ID: 1100023-07

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique — Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.4**	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 01:44	
Surrogate: 1,2-Dichlorobenzene-d4	*79.5 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 01:44*	
Surrogate: 2-Fluorobiphenyl	*76.2 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 01:44*	
Surrogate: 4-Terphenyl-d14	*92.2 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 01:44*	
Surrogate: Nitrobenzene-d5	*85.2 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 01:44*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/16/2011

Client Sample ID MW-3000B
Lab ID: 1100023-08

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,1-Dichloroethene	**13.7**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
2-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
4-Chlorotoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Benzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Bromobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Bromodichloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Bromoform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Bromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Carbon tetrachloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Chlorobenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Chloroethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Chloroform	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Chloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-3000B

Lab ID: 1100023-08

Volatile Organic Compounds by EPA 8260 Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**4.4**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Dibromochloromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Dibromomethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Ethylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Isopropylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
m,p-Xylene	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Methylene chloride	ND	1.0	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
n-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
n-Propylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Naphthalene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
o-Xylene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
sec-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Styrene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
tert-Butylbenzene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Tetrachloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Toluene	**2.8**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Trichloroethene	**82.6**	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Vinyl chloride	ND	0.5	NA	1	B1K0212	11/10/2011	11/10/11 21:42	
Surrogate: 1,2-Dichloroethane-d4	*129 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:42*	
Surrogate: 4-Bromofluorobenzene	*99.7 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:42*	
Surrogate: Dibromofluoromethane	*123 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:42*	
Surrogate: Toluene-d8	*112 %*	*70 - 130*			B1K0212	11/10/2011	*11/10/11 21:42*	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/16/2011

Client Sample ID MW-3000B

Lab ID: 1100023-08

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique — Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.4**	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 02:12	
Surrogate: 1,2-Dichlorobenzene-d4	*73.1 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 02:12*	
Surrogate: 2-Fluorobiphenyl	*68.0 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 02:12*	
Surrogate: 4-Terphenyl-d14	*92.9 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 02:12*	
Surrogate: Nitrobenzene-d5	*70.5 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 02:12*	

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0188 - MSVOAW_LL									
Blank (B1K0188-BLK1)					Prepared: 11/11/2011 Analyzed: 11/11/2011				
1,1,1,2-Tetrachloroethane	ND	0.5			NR				
1,1,1-Trichloroethane	ND	0.5			NR				
1,1,2,2-Tetrachloroethane	ND	0.5			NR				
1,1,2-Trichloroethane	ND	0.5			NR				
1,1-Dichloroethane	ND	0.5			NR				
1,1-Dichloroethene	ND	0.5			NR				
1,1-Dichloropropene	ND	0.5			NR				
1,2,3-Trichloropropane	ND	0.5			NR				
1,2,3-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trimethylbenzene	ND	0.5			NR				
1,2-Dibromo-3-chloropropane	ND	0.5			NR				
1,2-Dibromoethane	ND	0.5			NR				
1,2-Dichlorobenzene	ND	0.5			NR				
1,2-Dichloroethane	ND	0.5			NR				
1,2-Dichloropropane	ND	0.5			NR				
1,3,5-Trimethylbenzene	ND	0.5			NR				
1,3-Dichlorobenzene	ND	0.5			NR				
1,3-Dichloropropane	ND	0.5			NR				
1,4-Dichlorobenzene	ND	0.5			NR				
2,2-Dichloropropane	ND	0.5			NR				
2-Chlorotoluene	ND	0.5			NR				
4-Chlorotoluene	ND	0.5			NR				
4-Isopropyltoluene	ND	0.5			NR				
Benzene	ND	0.5			NR				
Bromobenzene	ND	0.5			NR				
Bromodichloromethane	ND	0.5			NR				
Bromoform	ND	0.5			NR				
Bromomethane	ND	0.5			NR				
Carbon tetrachloride	ND	0.5			NR				
Chlorobenzene	ND	0.5			NR				
Chloroethane	ND	0.5			NR				
Chloroform	ND	0.5			NR				
Chloromethane	ND	0.5			NR				
cis-1,2-Dichloroethene	ND	0.5			NR				
cis-1,3-Dichloropropene	ND	0.5			NR				
Dibromochloromethane	ND	0.5			NR				
Dibromomethane	ND	0.5			NR				
Dichlorodifluoromethane	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0188 - MSVOAW_LL (continued)									
Blank (B1K0188-BLK1) - Continued					Prepared: 11/11/2011 Analyzed: 11/11/2011				
Ethylbenzene	ND	0.5			NR				
Hexachlorobutadiene	ND	0.5			NR				
Isopropylbenzene	ND	0.5			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.5			NR				
n-Propylbenzene	ND	0.5			NR				
Naphthalene	ND	0.5			NR				
o-Xylene	ND	0.5			NR				
sec-Butylbenzene	ND	0.5			NR				
Styrene	ND	0.5			NR				
tert-Butylbenzene	ND	0.5			NR				
Tetrachloroethene	ND	0.5			NR				
Toluene	ND	0.5			NR				
trans-1,2-Dichloroethene	ND	0.5			NR				
Trichloroethene	ND	0.5			NR				
Trichlorofluoromethane	ND	0.5			NR				
Vinyl chloride	ND	0.5			NR				
Surrogate: 1,2-Dichloroethane-d4	*24.55*		*25.0*		*98.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23.61*		*25.0*		*94.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27.00*		*25.0*		*108*	*70 - 130*			
Surrogate: Toluene-d8	*28.50*		*25.0*		*114*	*70 - 130*			
LCS (B1K0188-BS1)					Prepared: 11/11/2011 Analyzed: 11/11/2011				
1,1-Dichloroethene	16.88	0.5	20.0		84.4	70 - 130			
Benzene	34.97	0.5	40.0		87.4	70 - 130			
Chlorobenzene	18.45	0.5	20.0		92.2	70 - 130			
MTBE	16.97	0.5	20.0		84.8	70 - 130			
Toluene	38.28	0.5	40.0		95.7	70 - 130			
Trichloroethene	18.81	0.5	20.0		94.0	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.45*		*25.0*		*93.8*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23.36*		*25.0*		*93.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25.99*		*25.0*		*104*	*70 - 130*			
Surrogate: Toluene-d8	*28.60*		*25.0*		*114*	*70 - 130*			
LCS Dup (B1K0188-BSD1)					Prepared: 11/11/2011 Analyzed: 11/11/2011				
1,1-Dichloroethene	18.02	0.5	20.0		90.1	70 - 130	6.53	20	
Benzene	36.64	0.5	40.0		91.6	70 - 130	4.66	20	
Chlorobenzene	19.09	0.5	20.0		95.4	70 - 130	3.41	20	
MTBE	17.27	0.5	20.0		86.4	70 - 130	1.75	20	
Toluene	40.23	0.5	40.0		101	70 - 130	4.97	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0188 - MSVOAW_LL (continued)									
LCS Dup (B1K0188-BSD1) - Continued					Prepared: 11/11/2011 Analyzed: 11/11/2011				
Trichloroethene	19.92	0.5	20.0		99.6	70 - 130	5.73	20	
Surrogate: 1,2-Dichloroethane-d4	*23.30*		*25.0*		*93.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23.38*		*25.0*		*93.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25.62*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*28.53*		*25.0*		*114*	*70 - 130*			
Matrix Spike (B1K0188-MS1)		**Source: 1100034-01**			Prepared: 11/11/2011 Analyzed: 11/11/2011				
1,1-Dichloroethene	116.3	0.5	20.0	96.85	97.4	70 - 130			
Benzene	40.31	0.5	40.0	ND	101	70 - 130			
Chlorobenzene	20.66	0.5	20.0	ND	103	70 - 130			
MTBE	20.62	0.5	20.0	ND	103	70 - 130			
Toluene	43.91	0.5	40.0	ND	110	70 - 130			
Trichloroethene	21.83	0.5	20.0	ND	109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27.12*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.12*		*25.0*		*96.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27.80*		*25.0*		*111*	*70 - 130*			
Surrogate: Toluene-d8	*28.55*		*25.0*		*114*	*70 - 130*			
Matrix Spike Dup (B1K0188-MSD1)		**Source: 1100034-01**			Prepared: 11/11/2011 Analyzed: 11/11/2011				
1,1-Dichloroethene	109.8	0.5	20.0	96.85	65.0	70 - 130	5.72	20	M1
Benzene	38.27	0.5	40.0	ND	95.7	70 - 130	5.19	20	
Chlorobenzene	20.01	0.5	20.0	ND	100	70 - 130	3.20	20	
MTBE	20.06	0.5	20.0	ND	100	70 - 130	2.75	20	
Toluene	41.79	0.5	40.0	ND	104	70 - 130	4.95	20	
Trichloroethene	20.51	0.5	20.0	ND	103	70 - 130	6.24	20	
Surrogate: 1,2-Dichloroethane-d4	*25.64*		*25.0*		*103*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.17*		*25.0*		*96.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26.55*		*25.0*		*106*	*70 - 130*			
Surrogate: Toluene-d8	*28.73*		*25.0*		*115*	*70 - 130*			
Batch B1K0194 - MSVOAW_LL									
Blank (B1K0194-BLK1)					Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,1,1,2-Tetrachloroethane	ND	0.5			NR				
1,1,1-Trichloroethane	ND	0.5			NR				
1,1,2,2-Tetrachloroethane	ND	0.5			NR				
1,1,2-Trichloroethane	ND	0.5			NR				
1,1-Dichloroethane	ND	0.5			NR				
1,1-Dichloroethene	ND	0.5			NR				
1,1-Dichloropropene	ND	0.5			NR				
1,2,3-Trichloropropane	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0194 - MSVOAW_LL (continued)									
Blank (B1K0194-BLK1) - Continued					Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,2,3-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trimethylbenzene	ND	0.5			NR				
1,2-Dibromo-3-chloropropane	ND	0.5			NR				
1,2-Dibromoethane	ND	0.5			NR				
1,2-Dichlorobenzene	ND	0.5			NR				
1,2-Dichloroethane	ND	0.5			NR				
1,2-Dichloropropane	ND	0.5			NR				
1,3,5-Trimethylbenzene	ND	0.5			NR				
1,3-Dichlorobenzene	ND	0.5			NR				
1,3-Dichloropropane	ND	0.5			NR				
1,4-Dichlorobenzene	ND	0.5			NR				
2,2-Dichloropropane	ND	0.5			NR				
2-Chlorotoluene	ND	0.5			NR				
4-Chlorotoluene	ND	0.5			NR				
4-Isopropyltoluene	ND	0.5			NR				
Benzene	ND	0.5			NR				
Bromobenzene	ND	0.5			NR				
Bromodichloromethane	ND	0.5			NR				
Bromoform	ND	0.5			NR				
Bromomethane	ND	0.5			NR				
Carbon tetrachloride	ND	0.5			NR				
Chlorobenzene	ND	0.5			NR				
Chloroethane	ND	0.5			NR				
Chloroform	ND	0.5			NR				
Chloromethane	ND	0.5			NR				
cis-1,2-Dichloroethene	ND	0.5			NR				
cis-1,3-Dichloropropene	ND	0.5			NR				
Dibromochloromethane	ND	0.5			NR				
Dibromomethane	ND	0.5			NR				
Dichlorodifluoromethane	ND	0.5			NR				
Ethylbenzene	ND	0.5			NR				
Hexachlorobutadiene	ND	0.5			NR				
Isopropylbenzene	ND	0.5			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.5			NR				
n-Propylbenzene	ND	0.5			NR				
Naphthalene	ND	0.5			NR				
o-Xylene	ND	0.5			NR				
sec-Butylbenzene	ND	0.5			NR				
Styrene	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0194 - MSVOAW_LL (continued)									
Blank (B1K0194-BLK1) - Continued					Prepared: 11/10/2011 Analyzed: 11/10/2011				
tert-Butylbenzene	ND	0.5			NR				
Tetrachloroethene	ND	0.5			NR				
Toluene	ND	0.5			NR				
trans-1,2-Dichloroethene	ND	0.5			NR				
Trichloroethene	ND	0.5			NR				
Trichlorofluoromethane	ND	0.5			NR				
Vinyl chloride	ND	0.5			NR				
Surrogate: 1,2-Dichloroethane-d4	*29.00*		*25.0*		*116*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.43*		*25.0*		*97.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29.19*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28.97*		*25.0*		*116*	*70 - 130*			
LCS (B1K0194-BS1)					Prepared: 11/9/2011 Analyzed: 11/9/2011				
1,1-Dichloroethene	19.06	0.5	20.0		95.3	70 - 130			
Benzene	39.29	0.5	40.0		98.2	70 - 130			
Chlorobenzene	20.71	0.5	20.0		104	70 - 130			
MTBE	21.32	0.5	20.0		107	70 - 130			
Toluene	43.16	0.5	40.0		108	70 - 130			
Trichloroethene	20.79	0.5	20.0		104	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*29.44*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26.10*		*25.0*		*104*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28.01*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*29.01*		*25.0*		*116*	*70 - 130*			
LCS Dup (B1K0194-BSD1)					Prepared: 11/9/2011 Analyzed: 11/9/2011				
1,1-Dichloroethene	18.63	0.5	20.0		93.2	70 - 130	2.28	20	
Benzene	39.27	0.5	40.0		98.2	70 - 130	0.0509	20	
Chlorobenzene	20.83	0.5	20.0		104	70 - 130	0.578	20	
MTBE	21.28	0.5	20.0		106	70 - 130	0.188	20	
Toluene	42.28	0.5	40.0		106	70 - 130	2.06	20	
Trichloroethene	20.52	0.5	20.0		103	70 - 130	1.31	20	
Surrogate: 1,2-Dichloroethane-d4	*28.56*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*25.70*		*25.0*		*103*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27.29*		*25.0*		*109*	*70 - 130*			
Surrogate: Toluene-d8	*29.01*		*25.0*		*116*	*70 - 130*			
Matrix Spike (B1K0194-MS1)		**Source: 1100021-09**			Prepared: 11/9/2011 Analyzed: 11/9/2011				
1,1-Dichloroethene	20.79	0.5	20.0	ND	104	70 - 130			
Benzene	41.31	0.5	40.0	ND	103	70 - 130			
Chlorobenzene	21.25	0.5	20.0	ND	106	70 - 130			
MTBE	21.72	0.5	20.0	ND	109	70 - 130			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0194 - MSVOAW_LL (continued)									
Matrix Spike (B1K0194-MS1) - Continued		**Source: 1100021-09**			Prepared: 11/9/2011 Analyzed: 11/9/2011				
Toluene	44.79	0.5	40.0	ND	112	70 - 130			
Trichloroethene	21.61	0.5	20.0	ND	108	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*28.67*		*25.0*		*115*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*25.49*		*25.0*		*102*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27.74*		*25.0*		*111*	*70 - 130*			
Surrogate: Toluene-d8	*28.75*		*25.0*		*115*	*70 - 130*			
Matrix Spike Dup (B1K0194-MSD1)		**Source: 1100021-09**			Prepared: 11/9/2011 Analyzed: 11/9/2011				
1,1-Dichloroethene	19.41	0.5	20.0	ND	97.0	70 - 130	6.87	20	
Benzene	38.91	0.5	40.0	ND	97.3	70 - 130	5.98	20	
Chlorobenzene	20.69	0.5	20.0	ND	103	70 - 130	2.67	20	
MTBE	20.81	0.5	20.0	ND	104	70 - 130	4.28	20	
Toluene	42.15	0.5	40.0	ND	105	70 - 130	6.07	20	
Trichloroethene	20.51	0.5	20.0	ND	103	70 - 130	5.22	20	
Surrogate: 1,2-Dichloroethane-d4	*27.57*		*25.0*		*110*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*25.21*		*25.0*		*101*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27.54*		*25.0*		*110*	*70 - 130*			
Surrogate: Toluene-d8	*28.57*		*25.0*		*114*	*70 - 130*			
Batch B1K0212 - MSVOAW_LL									
Blank (B1K0212-BLK1)					Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,1,1,2-Tetrachloroethane	ND	0.5			NR				
1,1,1-Trichloroethane	ND	0.5			NR				
1,1,2,2-Tetrachloroethane	ND	0.5			NR				
1,1,2-Trichloroethane	ND	0.5			NR				
1,1-Dichloroethane	ND	0.5			NR				
1,1-Dichloroethene	ND	0.5			NR				
1,1-Dichloropropene	ND	0.5			NR				
1,2,3-Trichloropropane	ND	0.5			NR				
1,2,3-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trimethylbenzene	ND	0.5			NR				
1,2-Dibromo-3-chloropropane	ND	0.5			NR				
1,2-Dibromoethane	ND	0.5			NR				
1,2-Dichlorobenzene	ND	0.5			NR				
1,2-Dichloroethane	ND	0.5			NR				
1,2-Dichloropropane	ND	0.5			NR				
1,3,5-Trimethylbenzene	ND	0.5			NR				
1,3-Dichlorobenzene	ND	0.5			NR				
1,3-Dichloropropane	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0212 - MSVOAW_LL (continued)									
Blank (B1K0212-BLK1) - Continued					Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,4-Dichlorobenzene	ND	0.5			NR				
2,2-Dichloropropane	ND	0.5			NR				
2-Chlorotoluene	ND	0.5			NR				
4-Chlorotoluene	ND	0.5			NR				
4-Isopropyltoluene	ND	0.5			NR				
Benzene	ND	0.5			NR				
Bromobenzene	ND	0.5			NR				
Bromodichloromethane	ND	0.5			NR				
Bromoform	ND	0.5			NR				
Bromomethane	ND	0.5			NR				
Carbon tetrachloride	ND	0.5			NR				
Chlorobenzene	ND	0.5			NR				
Chloroethane	ND	0.5			NR				
Chloroform	ND	0.5			NR				
Chloromethane	ND	0.5			NR				
cis-1,2-Dichloroethene	ND	0.5			NR				
cis-1,3-Dichloropropene	ND	0.5			NR				
Dibromochloromethane	ND	0.5			NR				
Dibromomethane	ND	0.5			NR				
Dichlorodifluoromethane	ND	0.5			NR				
Ethylbenzene	ND	0.5			NR				
Hexachlorobutadiene	ND	0.5			NR				
Isopropylbenzene	ND	0.5			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.5			NR				
n-Propylbenzene	ND	0.5			NR				
Naphthalene	ND	0.5			NR				
o-Xylene	ND	0.5			NR				
sec-Butylbenzene	ND	0.5			NR				
Styrene	ND	0.5			NR				
tert-Butylbenzene	ND	0.5			NR				
Tetrachloroethene	ND	0.5			NR				
Toluene	ND	0.5			NR				
trans-1,2-Dichloroethene	ND	0.5			NR				
Trichloroethene	ND	0.5			NR				
Trichlorofluoromethane	ND	0.5			NR				
Vinyl chloride	ND	0.5			NR				
Surrogate: 1,2-Dichloroethane-d4	*27.58*		*25.0*		*110*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.06*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27.78*		*25.0*		*111*	*70 - 130*			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0212 - MSVOAW_LL (continued)									
Blank (B1K0212-BLK1) - Continued					Prepared: 11/10/2011 Analyzed: 11/10/2011				
Surrogate: Toluene-d8	*28.75*		*25.0*		*115*	*70 - 130*			
LCS (B1K0212-BS1)					Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,1-Dichloroethene	17.11	0.5	20.0		85.6	70 - 130			
Benzene	37.93	0.5	40.0		94.8	70 - 130			
Chlorobenzene	20.00	0.5	20.0		100	70 - 130			
MTBE	20.80	0.5	20.0		104	70 - 130			
Toluene	41.19	0.5	40.0		103	70 - 130			
Trichloroethene	20.20	0.5	20.0		101	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26.77*		*25.0*		*107*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.49*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26.73*		*25.0*		*107*	*70 - 130*			
Surrogate: Toluene-d8	*28.61*		*25.0*		*114*	*70 - 130*			
LCS Dup (B1K0212-BSD1)					Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,1-Dichloroethene	17.08	0.5	20.0		85.4	70 - 130	0.175	20	
Benzene	38.11	0.5	40.0		95.3	70 - 130	0.473	20	
Chlorobenzene	20.40	0.5	20.0		102	70 - 130	1.98	20	
MTBE	20.53	0.5	20.0		103	70 - 130	1.31	20	
Toluene	40.88	0.5	40.0		102	70 - 130	0.755	20	
Trichloroethene	20.03	0.5	20.0		100	70 - 130	0.845	20	
Surrogate: 1,2-Dichloroethane-d4	*26.03*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.55*		*25.0*		*98.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26.25*		*25.0*		*105*	*70 - 130*			
Surrogate: Toluene-d8	*29.09*		*25.0*		*116*	*70 - 130*			
Matrix Spike (B1K0212-MS1)		**Source: 1100023-05RE1**			Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,1-Dichloroethene	25.16	0.5	20.0	5.160	100	70 - 130			
Benzene	41.40	0.5	40.0	ND	104	70 - 130			
Chlorobenzene	21.80	0.5	20.0	ND	109	70 - 130			
MTBE	20.53	0.5	20.0	ND	103	70 - 130			
Toluene	45.23	0.5	40.0	ND	113	70 - 130			
Trichloroethene	23.41	0.5	20.0	1.110	112	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*21.30*		*25.0*		*85.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23.41*		*25.0*		*93.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.47*		*25.0*		*97.9*	*70 - 130*			
Surrogate: Toluene-d8	*27.78*		*25.0*		*111*	*70 - 130*			
Matrix Spike Dup (B1K0212-MSD1)		**Source: 1100023-05RE1**			Prepared: 11/10/2011 Analyzed: 11/10/2011				
1,1-Dichloroethene	23.59	0.5	20.0	5.160	92.2	70 - 130	6.44	20	
Benzene	38.75	0.5	40.0	ND	96.9	70 - 130	6.61	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0212 - MSVOAW_LL (continued)									
Matrix Spike Dup (B1K0212-MSD1) - Continued		**Source: 1100023-05RE1**			Prepared: 11/10/2011 Analyzed: 11/10/2011				
Chlorobenzene	20.35	0.5	20.0	ND	102	70 - 130	6.88	20	
MTBE	20.45	0.5	20.0	ND	102	70 - 130	0.390	20	
Toluene	42.17	0.5	40.0	ND	105	70 - 130	7.00	20	
Trichloroethene	21.66	0.5	20.0	1.110	103	70 - 130	7.77	20	
Surrogate: 1,2-Dichloroethane-d4	*21.34*		*25.0*		*85.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23.04*		*25.0*		*92.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.51*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Toluene-d8	*27.64*		*25.0*		*111*	*70 - 130*			
Batch B1K0246 - MSVOAW									
Blank (B1K0246-BLK1)					Prepared: 11/9/2011 Analyzed: 11/9/2011				
1,1,1,2-Tetrachloroethane	ND	0.5			NR				
1,1,1-Trichloroethane	ND	0.5			NR				
1,1,2,2-Tetrachloroethane	ND	0.5			NR				
1,1,2-Trichloroethane	ND	0.5			NR				
1,1-Dichloroethane	ND	0.5			NR				
1,1-Dichloroethene	ND	0.5			NR				
1,1-Dichloropropene	ND	0.5			NR				
1,2,3-Trichloropropane	ND	0.5			NR				
1,2,3-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trimethylbenzene	ND	0.5			NR				
1,2-Dibromo-3-chloropropane	ND	0.5			NR				
1,2-Dibromoethane	ND	0.5			NR				
1,2-Dichlorobenzene	ND	0.5			NR				
1,2-Dichloroethane	ND	0.5			NR				
1,2-Dichloropropane	ND	0.5			NR				
1,3,5-Trimethylbenzene	ND	0.5			NR				
1,3-Dichlorobenzene	ND	0.5			NR				
1,3-Dichloropropane	ND	0.5			NR				
1,4-Dichlorobenzene	ND	0.5			NR				
2,2-Dichloropropane	ND	0.5			NR				
2-Chlorotoluene	ND	0.5			NR				
4-Chlorotoluene	ND	0.5			NR				
4-Isopropyltoluene	ND	0.5			NR				
Benzene	ND	0.5			NR				
Bromobenzene	ND	0.5			NR				
Bromodichloromethane	ND	0.5			NR				
Bromoform	ND	0.5			NR				
Bromomethane	0.6800	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0246 - MSVOAW (continued)									
Blank (B1K0246-BLK1) - Continued					Prepared: 11/9/2011 Analyzed: 11/9/2011				
Carbon tetrachloride	ND	0.5			NR				
Chlorobenzene	ND	0.5			NR				
Chloroethane	ND	0.5			NR				
Chloroform	ND	0.5			NR				
Chloromethane	ND	0.5			NR				
cis-1,2-Dichloroethene	ND	0.5			NR				
cis-1,3-Dichloropropene	ND	0.5			NR				
Dibromochloromethane	ND	0.5			NR				
Dibromomethane	ND	0.5			NR				
Dichlorodifluoromethane	ND	0.5			NR				
Ethylbenzene	ND	5.0			NR				
Hexachlorobutadiene	ND	0.5			NR				
Isopropylbenzene	ND	0.5			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.5			NR				
n-Propylbenzene	ND	0.5			NR				
Naphthalene	ND	0.5			NR				
o-Xylene	ND	0.5			NR				
sec-Butylbenzene	ND	0.5			NR				
Styrene	ND	0.5			NR				
tert-Butylbenzene	ND	0.5			NR				
Tetrachloroethene	ND	0.5			NR				
Toluene	ND	0.5			NR				
trans-1,2-Dichloroethene	ND	0.5			NR				
Trichloroethene	ND	0.5			NR				
Trichlorofluoromethane	ND	0.5			NR				
Vinyl chloride	ND	0.5			NR				
Surrogate: 1,2-Dichloroethane-d4	*24.51*		*25.0*		*98.0*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*27.56*		*25.0*		*110*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.68*		*25.0*		*98.7*	*70 - 130*			
Surrogate: Toluene-d8	*25.88*		*25.0*		*104*	*70 - 130*			
LCS (B1K0246-BS1)					Prepared: 11/9/2011 Analyzed: 11/9/2011				
1,1-Dichloroethene	14.97	0.5	20.0		74.8	70 - 130			
Benzene	37.09	0.5	40.0		92.7	70 - 130			
Chlorobenzene	20.29	0.5	20.0		101	70 - 130			
MTBE	18.20	0.5	20.0		91.0	70 - 130			
Toluene	38.76	0.5	40.0		96.9	70 - 130			
Trichloroethene	18.61	0.5	20.0		93.0	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*22.83*		*25.0*		*91.3*	*70 - 130*			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0246 - MSVOAW (continued)									
LCS (B1K0246-BS1) - Continued					Prepared: 11/9/2011 Analyzed: 11/9/2011				
Surrogate: 4-Bromofluorobenzene	*25.33*		*25.0*		*101*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23.12*		*25.0*		*92.5*	*70 - 130*			
Surrogate: Toluene-d8	*24.17*		*25.0*		*96.7*	*70 - 130*			
LCS Dup (B1K0246-BSD1)					Prepared: 11/9/2011 Analyzed: 11/9/2011				
1,1-Dichloroethene	15.31	0.5	20.0		76.6	70 - 130	2.25	20	
Benzene	38.28	0.5	40.0		95.7	70 - 130	3.16	20	
Chlorobenzene	20.69	0.5	20.0		103	70 - 130	1.95	20	
MTBE	18.18	0.5	20.0		90.9	70 - 130	0.110	20	
Toluene	40.57	0.5	40.0		101	70 - 130	4.56	20	
Trichloroethene	19.56	0.5	20.0		97.8	70 - 130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	*90.29*		*25.0*		*361*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*98.55*		*25.0*		*394*	*70 - 130*			
Surrogate: Dibromofluoromethane	*92.67*		*25.0*		*371*	*70 - 130*			
Surrogate: Toluene-d8	*99.52*		*25.0*		*398*	*70 - 130*			

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0073 - MSSEMI_ISOTOPEDILN									
Blank (B1K0073-BLK1)					Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	ND	10.0			NR				
Surrogate: 1,2-Dichlorobenzene-d	*65.53*		*100*		*65.5*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*76.61*		*100*		*76.6*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*88.36*		*100*		*88.4*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*73.15*		*100*		*73.2*	*0 - 200*			
LCS (B1K0073-BS1)					Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	108.9	10.0	100		109	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*67.70*		*100*		*67.7*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*80.26*		*100*		*80.3*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*94.50*		*100*		*94.5*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*82.70*		*100*		*82.7*	*0 - 200*			
Matrix Spike (B1K0073-MS1)		**Source: 1100061-04**			Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	385.4	10.0	100	300.5	84.8	0 - 200			
Surrogate: 1,2-Dichlorobenzene-d	*65.39*		*100*		*65.4*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*78.91*		*100*		*78.9*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*93.03*		*100*		*93.0*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*83.72*		*100*		*83.7*	*0 - 200*			
Matrix Spike Dup (B1K0073-MSD1)		**Source: 1100061-04**			Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	387.1	10.0	100	300.5	86.5	0 - 200	0.440	200	
Surrogate: 1,2-Dichlorobenzene-d	*63.16*		*100*		*63.2*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*75.07*		*100*		*75.1*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*85.81*		*100*		*85.8*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*80.72*		*100*		*80.7*	*0 - 200*			

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0068 - MSSEMI_ISOTOPEDILN									
Blank (B1K0068-BLK1)					Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	ND	0.2			NR				
Surrogate: 1,2-Dichlorobenzene-d	*0.8078*		*1.00*		*80.8*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7421*		*1.00*		*74.2*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.9813*		*1.00*		*98.1*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8560*		*1.00*		*85.6*	*50 - 136*			
LCS (B1K0068-BS1)					Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.138	0.2	1.00		114	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*0.7727*		*1.00*		*77.3*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7399*		*1.00*		*74.0*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8954*		*1.00*		*89.5*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8679*		*1.00*		*86.8*	*50 - 136*			
Matrix Spike (B1K0068-MS1)		**Source: 1100061-06**			Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.222	0.2	1.00	ND	122	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*0.7918*		*1.00*		*79.2*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7680*		*1.00*		*76.8*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8661*		*1.00*		*86.6*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8901*		*1.00*		*89.0*	*50 - 136*			
Matrix Spike Dup (B1K0068-MSD1)		**Source: 1100061-06**			Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.253	0.2	1.00	ND	125	70 - 130	2.50	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.8228*		*1.00*		*82.3*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7976*		*1.00*		*79.8*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8919*		*1.00*		*89.2*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.9331*		*1.00*		*93.3*	*50 - 136*			

Hargis & Associates, Inc.			
9171 Town Centre Drive, Suite 375	Project Number:	RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To:	Steve Netto	11/16/2011

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/2/11 PAGE 1 OF 1

PROJECT NAME	RAYTHEON MAIN
PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross
Phone No.	858-455-6500
QA MANAGER	Steve Netto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	Amanda Beam, DANIEL MORA

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane (0.2 ug/L)	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	LABORATORY INFORMATION / REMARKS
1100023-007	TB-110211	11/2/11	725				X	X				X	2		X			X				X	ATL
2	MW-34C		901		X			X				X	3		X			X				X	Attn: Rachelle Arada
	↓		↓		X							X		1		X						X	
3	MW-34A		945		X			X				X	3		X			X				X	
	↓		↓		X							X		1		X						X	
4	MW-34B		1018		X			X				X	3		X					X		X	
	↓		↓		X							X		1			X					X	
5	MW-33		1302		X			X				X	3		X			X				X	
	↓		↓		X							X		1		X						X	
6	MW-30A		1438		X			X				X	3		X			X				X	
	↓		↓		X							X		1		X						X	
7	MW-30B		1515		X			X				X	3		X				X			X	
	↓		↓		X							X		1		X						X	
8 1535	MW-3000B	↓	~~1545~~ 1535		X			X				X	3	1	X	X			X			X	1535 TIME
Total number of Containers per analysis:													23	7								**Total No. of Containers:**	30

Relinquished by:	Date	Received by:	Date
Amanda Beam	11/2/11	[illegible]	11/2/11
H+A Inc (Company)	Time 1701	ATL (Company)	Time 1701
Relinquished by:	Date 11/2/11	Received by:	Date 11/2/11
[illegible]		[illegible]	
ATL (Company)	Time 1744	ATL (Company)	Time 1745

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: Courier/Drop off
Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL - LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

21 November 2011

ACCREDITED IN ACCORDANCE WITH nelac

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(619) 521-8580

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

RE: ATL Work Order Number: 1100061

Client Reference : RAYTHEON MAIN, 532.30

Enclosed are the results for sample(s) received on November, 3 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/21/2011

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-110311	1100061-01	Lab H20	11/03/11 7:30	11/03/11 17:15
MW-31	1100061-02	Groundwater	11/03/11 8:37	11/03/11 17:15
MW-28	1100061-03	Groundwater	11/03/11 9:40	11/03/11 17:15
MW-29	1100061-04	Groundwater	11/03/11 10:45	11/03/11 17:15
MW-32A	1100061-05	Groundwater	11/03/11 12:43	11/03/11 17:15
MW-32C	1100061-06	Groundwater	11/03/11 15:36	11/03/11 17:15
MW-32B	1100061-07	Groundwater	11/03/11 17:03	11/03/11 17:15

CASE NARRATIVE

Sample Receiving / General Comments

Headspace >5-6mm was noted four voa vials for sample MW-29.

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/21/2011

Client Sample ID TB-110311

Lab ID: 1100061-01

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,1-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Chloroform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/21/2011

Client Sample ID TB-110311

Lab ID: 1100061-01

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Toluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Trichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:38	
Surrogate: 1,2-Dichloroethane-d4	*88.2 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:38*	
Surrogate: 4-Bromofluorobenzene	*96.4 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:38*	
Surrogate: Dibromofluoromethane	*97.1 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:38*	
Surrogate: Toluene-d8	*99.3 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:38*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/21/2011

Client Sample ID MW-31
Lab ID: 1100061-02

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,1-Dichloroethene	**32.6**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Chloroform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-31
Lab ID: 1100061-02

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Toluene	**0.6**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Trichloroethene	**4.4**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 22:16	
Surrogate: 1,2-Dichloroethane-d4	*88.1 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 22:16*	
Surrogate: 4-Bromofluorobenzene	*96.0 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 22:16*	
Surrogate: Dibromofluoromethane	*96.6 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 22:16*	
Surrogate: Toluene-d8	*99.8 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 22:16*	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/21/2011

Client Sample ID MW-31

Lab ID: 1100061-02

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	2.0	1.7	1	B1K0073	11/08/2011	11/10/11 13:37	
Surrogate: 1,2-Dichlorobenzene-d4	*56.7 %*		*37 - 93*		B1K0073	11/08/2011	*11/10/11 13:37*	
Surrogate: 2-Fluorobiphenyl	*67.3 %*		*51 - 100*		B1K0073	11/08/2011	*11/10/11 13:37*	
Surrogate: 4-Terphenyl-d14	*89.0 %*		*58 - 113*		B1K0073	11/08/2011	*11/10/11 13:37*	
Surrogate: Nitrobenzene-d5	*62.1 %*		*39 - 95*		B1K0073	11/08/2011	*11/10/11 13:37*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-28
Lab ID: 1100061-03

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,1-Dichloroethene	**1.1**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Chloroform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/21/2011

Client Sample ID MW-28

Lab ID: 1100061-03

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Toluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Trichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:39	
Surrogate: 1,2-Dichloroethane-d4	*86.6 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 17:39*	
Surrogate: 4-Bromofluorobenzene	*96.0 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 17:39*	
Surrogate: Dibromofluoromethane	*96.3 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 17:39*	
Surrogate: Toluene-d8	*98.9 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 17:39*	

Hargis & Associates, Inc.
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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-28
Lab ID: 1100061-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.3**	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 02:39	
Surrogate: 1,2-Dichlorobenzene-d4	*82.6 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 02:39*	
Surrogate: 2-Fluorobiphenyl	*72.9 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 02:39*	
Surrogate: 4-Terphenyl-d14	*93.4 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 02:39*	
Surrogate: Nitrobenzene-d5	*78.8 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 02:39*	

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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-29
Lab ID: 1100061-04

Volatile Organic Compounds by EPA 8260

Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,1,2-Trichloroethane	**2.3**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,1-Dichloroethane	**7.8**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,1-Dichloroethene	**804**	5.0	NA	10	B1K0371	11/17/2011	11/17/11 03:51	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2-Dichloroethane	**1.4**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
2-Chlorotoluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
4-Chlorotoluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Benzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Bromobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Bromodichloromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Bromoform	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Bromomethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Carbon tetrachloride	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Chlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Chloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Chloroform	**0.8**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Chloromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
cis-1,2-Dichloroethene	**0.6**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-29
Lab ID: 1100061-04

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Dibromochloromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Dibromomethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Ethylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Isopropylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
m,p-Xylene	ND	1.0	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Methylene chloride	ND	1.0	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
n-Butylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
n-Propylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Naphthalene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
o-Xylene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
sec-Butylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Styrene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
tert-Butylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Tetrachloroethene	**1.3**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Toluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Trichloroethene	**6.0**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Trichlorofluoromethane	**1.0**	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Vinyl chloride	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:32	
Surrogate: 1,2-Dichloroethane-d4	*91.3 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:32*	
Surrogate: 1,2-Dichloroethane-d4	*90.0 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:51*	
Surrogate: 4-Bromofluorobenzene	*96.7 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:32*	
Surrogate: 4-Bromofluorobenzene	*97.2 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:51*	
Surrogate: Dibromofluoromethane	*97.8 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:32*	
Surrogate: Dibromofluoromethane	*97.9 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:51*	
Surrogate: Toluene-d8	*99.7 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:32*	
Surrogate: Toluene-d8	*100 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:51*	

Hargis & Associates, Inc.
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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-29
Lab ID: 1100061-04

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**301**	2.0	1.7	1	B1K0073	11/08/2011	11/10/11 14:05	
Surrogate: 1,2-Dichlorobenzene-d4	*58.5 %*	*37 - 93*			B1K0073	11/08/2011	*11/10/11 14:05*	
Surrogate: 2-Fluorobiphenyl	*68.4 %*	*51 - 100*			B1K0073	11/08/2011	*11/10/11 14:05*	
Surrogate: 4-Terphenyl-d14	*89.2 %*	*58 - 113*			B1K0073	11/08/2011	*11/10/11 14:05*	
Surrogate: Nitrobenzene-d5	*64.0 %*	*39 - 95*			B1K0073	11/08/2011	*11/10/11 14:05*	

Hargis & Associates, Inc.
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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32A
Lab ID: 1100061-05

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,1-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Chloroform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/21/2011

Client Sample ID MW-32A

Lab ID: 1100061-05

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Toluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Trichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 17:59	
Surrogate: 1,2-Dichloroethane-d4	*87.8 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 17:59*	
Surrogate: 4-Bromofluorobenzene	*96.2 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 17:59*	
Surrogate: Dibromofluoromethane	*96.4 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 17:59*	
Surrogate: Toluene-d8	*98.9 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 17:59*	

Hargis & Associates, Inc.
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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32A
Lab ID: 1100061-05

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 03:06	
Surrogate: 1,2-Dichlorobenzene-d4	*79.0 %*		*58 - 99*		B1K0068	11/08/2011	*11/09/11 03:06*	
Surrogate: 2-Fluorobiphenyl	*71.7 %*		*60 - 104*		B1K0068	11/08/2011	*11/09/11 03:06*	
Surrogate: 4-Terphenyl-d14	*92.8 %*		*65 - 127*		B1K0068	11/08/2011	*11/09/11 03:06*	
Surrogate: Nitrobenzene-d5	*76.3 %*		*50 - 136*		B1K0068	11/08/2011	*11/09/11 03:06*	

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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32C
Lab ID: 1100061-06

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,1-Dichloroethene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
2-Chlorotoluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
4-Chlorotoluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Benzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Bromobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Bromodichloromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Bromoform	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Bromomethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Carbon tetrachloride	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Chlorobenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Chloroethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Chloroform	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Chloromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	

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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32C
Lab ID: 1100061-06

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Dibromochloromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Dibromomethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Ethylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Isopropylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
m,p-Xylene	ND	1.0	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Methylene chloride	ND	1.0	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
n-Butylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
n-Propylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Naphthalene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
o-Xylene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
sec-Butylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Styrene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
tert-Butylbenzene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Tetrachloroethene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Toluene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Trichloroethene	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Vinyl chloride	ND	0.5	NA	1	B1K0371	11/17/2011	11/17/11 03:12	
Surrogate: 1,2-Dichloroethane-d4	*90.8 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:12*	
Surrogate: 4-Bromofluorobenzene	*97.2 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:12*	
Surrogate: Dibromofluoromethane	*98.3 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:12*	
Surrogate: Toluene-d8	*99.8 %*		*70 - 130*		B1K0371	11/17/2011	*11/17/11 03:12*	

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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32C
Lab ID: 1100061-06

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 03:34	
Surrogate: 1,2-Dichlorobenzene-d4	*82.6 %*		*58 - 99*		B1K0068	11/08/2011	*11/09/11 03:34*	
Surrogate: 2-Fluorobiphenyl	*70.4 %*		*60 - 104*		B1K0068	11/08/2011	*11/09/11 03:34*	
Surrogate: 4-Terphenyl-d14	*91.9 %*		*65 - 127*		B1K0068	11/08/2011	*11/09/11 03:34*	
Surrogate: Nitrobenzene-d5	*81.5 %*		*50 - 136*		B1K0068	11/08/2011	*11/09/11 03:34*	

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San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32B
Lab ID: 1100061-07

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,1-Dichloroethane	**0.6**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,1-Dichloroethene	**69.9**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Chloroform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	

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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32B
Lab ID: 1100061-07

Volatile Organic Compounds by EPA 8260

Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**4.3**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Toluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Trichloroethene	**48.6**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:19	
Surrogate: 1,2-Dichloroethane-d4	*87.5 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 18:19*	
Surrogate: 4-Bromofluorobenzene	*96.1 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 18:19*	
Surrogate: Dibromofluoromethane	*96.4 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 18:19*	
Surrogate: Toluene-d8	*99.0 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 18:19*	

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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-32B
Lab ID: 1100061-07

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**2.3**	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 04:01	
Surrogate: 1,2-Dichlorobenzene-d4	*82.0 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 04:01*	
Surrogate: 2-Fluorobiphenyl	*76.3 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 04:01*	
Surrogate: 4-Terphenyl-d14	*91.8 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 04:01*	
Surrogate: Nitrobenzene-d5	*85.6 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 04:01*	

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0290 - MSVOAW_LL									
Blank (B1K0290-BLK1)				Prepared: 11/16/2011 Analyzed: 11/16/2011					
1,1,1,2-Tetrachloroethane	ND	0.5			NR				
1,1,1-Trichloroethane	ND	0.5			NR				
1,1,2,2-Tetrachloroethane	ND	0.5			NR				
1,1,2-Trichloroethane	ND	0.5			NR				
1,1-Dichloroethane	ND	0.5			NR				
1,1-Dichloroethene	ND	0.5			NR				
1,1-Dichloropropene	ND	0.5			NR				
1,2,3-Trichloropropane	ND	0.5			NR				
1,2,3-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trimethylbenzene	ND	0.5			NR				
1,2-Dibromo-3-chloropropane	ND	0.5			NR				
1,2-Dibromoethane	ND	0.5			NR				
1,2-Dichlorobenzene	ND	0.5			NR				
1,2-Dichloroethane	ND	0.5			NR				
1,2-Dichloropropane	ND	0.5			NR				
1,3,5-Trimethylbenzene	ND	0.5			NR				
1,3-Dichlorobenzene	ND	0.5			NR				
1,3-Dichloropropane	ND	0.5			NR				
1,4-Dichlorobenzene	ND	0.5			NR				
2,2-Dichloropropane	ND	0.5			NR				
2-Chlorotoluene	ND	0.5			NR				
4-Chlorotoluene	ND	0.5			NR				
4-Isopropyltoluene	ND	0.5			NR				
Benzene	ND	0.5			NR				
Bromobenzene	ND	0.5			NR				
Bromodichloromethane	ND	0.5			NR				
Bromoform	ND	0.5			NR				
Bromomethane	ND	0.5			NR				
Carbon tetrachloride	ND	0.5			NR				
Chlorobenzene	ND	0.5			NR				
Chloroethane	ND	0.5			NR				
Chloroform	ND	0.5			NR				
Chloromethane	ND	0.5			NR				
cis-1,2-Dichloroethene	ND	0.5			NR				
cis-1,3-Dichloropropene	ND	0.5			NR				
Dibromochloromethane	ND	0.5			NR				
Dibromomethane	ND	0.5			NR				
Dichlorodifluoromethane	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0290 - MSVOAW_LL (continued)									
Blank (B1K0290-BLK1) - Continued				Prepared: 11/16/2011 Analyzed: 11/16/2011					
Ethylbenzene	ND	0.5			NR				
Hexachlorobutadiene	ND	0.5			NR				
Isopropylbenzene	ND	0.5			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.5			NR				
n-Propylbenzene	ND	0.5			NR				
Naphthalene	ND	0.5			NR				
o-Xylene	ND	0.5			NR				
sec-Butylbenzene	ND	0.5			NR				
Styrene	ND	0.5			NR				
tert-Butylbenzene	ND	0.5			NR				
Tetrachloroethene	ND	0.5			NR				
Toluene	ND	0.5			NR				
trans-1,2-Dichloroethene	ND	0.5			NR				
Trichloroethene	ND	0.5			NR				
Trichlorofluoromethane	ND	0.5			NR				
Vinyl chloride	ND	0.5			NR				
Surrogate: 1,2-Dichloroethane-d4	*21.95*		*25.0*		*87.8*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.06*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.22*		*25.0*		*96.9*	*70 - 130*			
Surrogate: Toluene-d8	*24.87*		*25.0*		*99.5*	*70 - 130*			
LCS (B1K0290-BS1)				Prepared: 11/16/2011 Analyzed: 11/16/2011					
1,1-Dichloroethene	17.60	0.5	20.0		88.0	70 - 130			
Benzene	37.47	0.5	40.0		93.7	70 - 130			
Chlorobenzene	20.50	0.5	20.0		102	70 - 130			
MTBE	21.39	0.5	20.0		107	70 - 130			
Toluene	39.25	0.5	40.0		98.1	70 - 130			
Trichloroethene	19.66	0.5	20.0		98.3	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.50*		*25.0*		*94.0*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.31*		*25.0*		*97.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.26*		*25.0*		*97.0*	*70 - 130*			
Surrogate: Toluene-d8	*24.81*		*25.0*		*99.2*	*70 - 130*			
LCS Dup (B1K0290-BSD1)				Prepared: 11/16/2011 Analyzed: 11/16/2011					
1,1-Dichloroethene	18.22	0.5	20.0		91.1	70 - 130	3.46	20	
Benzene	38.26	0.5	40.0		95.6	70 - 130	2.09	20	
Chlorobenzene	20.77	0.5	20.0		104	70 - 130	1.31	20	
MTBE	20.98	0.5	20.0		105	70 - 130	1.94	20	
Toluene	40.06	0.5	40.0		100	70 - 130	2.04	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0290 - MSVOAW_LL (continued)									
LCS Dup (B1K0290-BSD1) - Continued					Prepared: 11/16/2011 Analyzed: 11/16/2011				
Trichloroethene	20.48	0.5	20.0		102	70 - 130	4.09	20	
Surrogate: 1,2-Dichloroethane-d4	*23.06*		*25.0*		*92.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.50*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23.75*		*25.0*		*95.0*	*70 - 130*			
Surrogate: Toluene-d8	*24.77*		*25.0*		*99.1*	*70 - 130*			
Matrix Spike (B1K0290-MS1)		**Source: 1100084-01**			Prepared: 11/16/2011 Analyzed: 11/16/2011				
1,1-Dichloroethene	20.92	0.5	20.0	ND	105	70 - 130			
Benzene	41.79	0.5	40.0	ND	104	70 - 130			
Chlorobenzene	22.23	0.5	20.0	ND	111	70 - 130			
MTBE	21.81	0.5	20.0	ND	109	70 - 130			
Toluene	43.90	0.5	40.0	ND	110	70 - 130			
Trichloroethene	22.55	0.5	20.0	ND	113	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.36*		*25.0*		*93.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.43*		*25.0*		*97.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23.87*		*25.0*		*95.5*	*70 - 130*			
Surrogate: Toluene-d8	*24.66*		*25.0*		*98.6*	*70 - 130*			
Matrix Spike Dup (B1K0290-MSD1)		**Source: 1100084-01**			Prepared: 11/16/2011 Analyzed: 11/16/2011				
1,1-Dichloroethene	20.12	0.5	20.0	ND	101	70 - 130	3.90	20	
Benzene	40.07	0.5	40.0	ND	100	70 - 130	4.20	20	
Chlorobenzene	21.51	0.5	20.0	ND	108	70 - 130	3.29	20	
MTBE	21.51	0.5	20.0	ND	108	70 - 130	1.39	20	
Toluene	42.05	0.5	40.0	ND	105	70 - 130	4.30	20	
Trichloroethene	21.52	0.5	20.0	ND	108	70 - 130	4.67	20	
Surrogate: 1,2-Dichloroethane-d4	*22.85*		*25.0*		*91.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.17*		*25.0*		*96.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23.86*		*25.0*		*95.4*	*70 - 130*			
Surrogate: Toluene-d8	*24.57*		*25.0*		*98.3*	*70 - 130*			
Batch B1K0371 - MSVOAW_LL									
Blank (B1K0371-BLK1)					Prepared: 11/17/2011 Analyzed: 11/17/2011				
1,1,1,2-Tetrachloroethane	ND	0.5			NR				
1,1,1-Trichloroethane	ND	0.5			NR				
1,1,2,2-Tetrachloroethane	ND	0.5			NR				
1,1,2-Trichloroethane	ND	0.5			NR				
1,1-Dichloroethane	ND	0.5			NR				
1,1-Dichloroethene	ND	0.5			NR				
1,1-Dichloropropene	ND	0.5			NR				
1,2,3-Trichloropropane	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0371 - MSVOAW_LL (continued)									
Blank (B1K0371-BLK1) - Continued				Prepared: 11/17/2011 Analyzed: 11/17/2011					
1,2,3-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trimethylbenzene	ND	0.5			NR				
1,2-Dibromo-3-chloropropane	ND	0.5			NR				
1,2-Dibromoethane	ND	0.5			NR				
1,2-Dichlorobenzene	ND	0.5			NR				
1,2-Dichloroethane	ND	0.5			NR				
1,2-Dichloropropane	ND	0.5			NR				
1,3,5-Trimethylbenzene	ND	0.5			NR				
1,3-Dichlorobenzene	ND	0.5			NR				
1,3-Dichloropropane	ND	0.5			NR				
1,4-Dichlorobenzene	ND	0.5			NR				
2,2-Dichloropropane	ND	0.5			NR				
2-Chlorotoluene	ND	0.5			NR				
4-Chlorotoluene	ND	0.5			NR				
4-Isopropyltoluene	ND	0.5			NR				
Benzene	ND	0.5			NR				
Bromobenzene	ND	0.5			NR				
Bromodichloromethane	ND	0.5			NR				
Bromoform	ND	0.5			NR				
Bromomethane	ND	0.5			NR				
Carbon tetrachloride	ND	0.5			NR				
Chlorobenzene	ND	0.5			NR				
Chloroethane	ND	0.5			NR				
Chloroform	ND	0.5			NR				
Chloromethane	ND	0.5			NR				
cis-1,2-Dichloroethene	ND	0.5			NR				
cis-1,3-Dichloropropene	ND	0.5			NR				
Dibromochloromethane	ND	0.5			NR				
Dibromomethane	ND	0.5			NR				
Dichlorodifluoromethane	ND	0.5			NR				
Ethylbenzene	ND	0.5			NR				
Hexachlorobutadiene	ND	0.5			NR				
Isopropylbenzene	ND	0.5			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.5			NR				
n-Propylbenzene	ND	0.5			NR				
Naphthalene	ND	0.5			NR				
o-Xylene	ND	0.5			NR				
sec-Butylbenzene	ND	0.5			NR				
Styrene	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0371 - MSVOAW_LL (continued)									
Blank (B1K0371-BLK1) - Continued					Prepared: 11/17/2011 Analyzed: 11/17/2011				
tert-Butylbenzene	ND	0.5			NR				
Tetrachloroethene	ND	0.5			NR				
Toluene	ND	0.5			NR				
trans-1,2-Dichloroethene	ND	0.5			NR				
Trichloroethene	ND	0.5			NR				
Trichlorofluoromethane	ND	0.5			NR				
Vinyl chloride	ND	0.5			NR				
Surrogate: 1,2-Dichloroethane-d4	*22.44*		*25.0*		*89.8*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23.88*		*25.0*		*95.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.50*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Toluene-d8	*25.18*		*25.0*		*101*	*70 - 130*			
LCS (B1K0371-BS1)					Prepared: 11/17/2011 Analyzed: 11/17/2011				
1,1-Dichloroethene	19.58	0.5	20.0		97.9	70 - 130			
Benzene	38.03	0.5	40.0		95.1	70 - 130			
Chlorobenzene	20.38	0.5	20.0		102	70 - 130			
MTBE	20.96	0.5	20.0		105	70 - 130			
Toluene	39.74	0.5	40.0		99.4	70 - 130			
Trichloroethene	20.59	0.5	20.0		103	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.32*		*25.0*		*93.3*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.43*		*25.0*		*97.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.12*		*25.0*		*96.5*	*70 - 130*			
Surrogate: Toluene-d8	*24.77*		*25.0*		*99.1*	*70 - 130*			
LCS Dup (B1K0371-BSD1)					Prepared: 11/17/2011 Analyzed: 11/17/2011				
1,1-Dichloroethene	19.61	0.5	20.0		98.0	70 - 130	0.153	20	
Benzene	38.31	0.5	40.0		95.8	70 - 130	0.734	20	
Chlorobenzene	20.36	0.5	20.0		102	70 - 130	0.0982	20	
MTBE	21.05	0.5	20.0		105	70 - 130	0.428	20	
Toluene	39.99	0.5	40.0		100	70 - 130	0.627	20	
Trichloroethene	20.82	0.5	20.0		104	70 - 130	1.11	20	
Surrogate: 1,2-Dichloroethane-d4	*23.59*		*25.0*		*94.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.44*		*25.0*		*97.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.47*		*25.0*		*97.9*	*70 - 130*			
Surrogate: Toluene-d8	*24.83*		*25.0*		*99.3*	*70 - 130*			
Matrix Spike (B1K0371-MS1)		**Source: 1100061-06**			Prepared: 11/17/2011 Analyzed: 11/17/2011				
1,1-Dichloroethene	20.31	0.5	20.0	ND	102	70 - 130			
Benzene	38.24	0.5	40.0	ND	95.6	70 - 130			
Chlorobenzene	19.89	0.5	20.0	ND	99.4	70 - 130			
MTBE	19.46	0.5	20.0	ND	97.3	70 - 130			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0371 - MSVOAW_LL (continued)									
Matrix Spike (B1K0371-MS1) - Continued		**Source: 1100061-06**		Prepared: 11/17/2011 Analyzed: 11/17/2011					
Toluene	39.81	0.5	40.0	ND	99.5	70 - 130			
Trichloroethene	20.05	0.5	20.0	ND	100	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.27*		*25.0*		*93.1*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.21*		*25.0*		*96.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.38*		*25.0*		*97.5*	*70 - 130*			
Surrogate: Toluene-d8	*24.89*		*25.0*		*99.6*	*70 - 130*			
Matrix Spike (B1K0371-MS2)		**Source: 1100061-04**		Prepared: 11/17/2011 Analyzed: 11/17/2011					
1,1-Dichloroethene	581.1	0.5	20.0	518.3	314	70 - 130			M3
Benzene	42.56	0.5	40.0	ND	106	70 - 130			
Chlorobenzene	22.18	0.5	20.0	ND	111	70 - 130			
MTBE	21.56	0.5	20.0	ND	108	70 - 130			
Toluene	44.49	0.5	40.0	ND	111	70 - 130			
Trichloroethene	29.21	0.5	20.0	6.040	116	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.54*		*25.0*		*94.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.40*		*25.0*		*97.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.49*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Toluene-d8	*25.01*		*25.0*		*100*	*70 - 130*			
Matrix Spike Dup (B1K0371-MSD1)		**Source: 1100061-06**		Prepared: 11/17/2011 Analyzed: 11/17/2011					
1,1-Dichloroethene	18.44	0.5	20.0	ND	92.2	70 - 130	9.65	20	
Benzene	36.28	0.5	40.0	ND	90.7	70 - 130	5.26	20	
Chlorobenzene	19.02	0.5	20.0	ND	95.1	70 - 130	4.47	20	
MTBE	19.12	0.5	20.0	ND	95.6	70 - 130	1.76	20	
Toluene	38.04	0.5	40.0	ND	95.1	70 - 130	4.55	20	
Trichloroethene	19.10	0.5	20.0	ND	95.5	70 - 130	4.85	20	
Surrogate: 1,2-Dichloroethane-d4	*23.30*		*25.0*		*93.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.24*		*25.0*		*97.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.33*		*25.0*		*97.3*	*70 - 130*			
Surrogate: Toluene-d8	*25.05*		*25.0*		*100*	*70 - 130*			
Matrix Spike Dup (B1K0371-MSD2)		**Source: 1100061-04**		Prepared: 11/17/2011 Analyzed: 11/17/2011					
1,1-Dichloroethene	561.4	0.5	20.0	518.3	216	70 - 130	3.44	20	M3
Benzene	41.29	0.5	40.0	ND	103	70 - 130	3.03	20	
Chlorobenzene	21.51	0.5	20.0	ND	108	70 - 130	3.07	20	
MTBE	21.39	0.5	20.0	ND	107	70 - 130	0.792	20	
Toluene	42.88	0.5	40.0	ND	107	70 - 130	3.69	20	
Trichloroethene	28.07	0.5	20.0	6.040	110	70 - 130	3.98	20	
Surrogate: 1,2-Dichloroethane-d4	*23.71*		*25.0*		*94.8*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.16*		*25.0*		*96.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.47*		*25.0*		*97.9*	*70 - 130*			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0371 - MSVOAW_LL (continued)									
Matrix Spike Dup (B1K0371-MSD2) - Continued			**Source: 1100061-04**		Prepared: 11/17/2011 Analyzed: 11/17/2011				
Surrogate: Toluene-d8	*24.95*		*25.0*		*99.8*	*70 - 130*			

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0073 - MSSEMI_ISOTOPEDILN									
Blank (B1K0073-BLK1)					Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	ND	10.0			NR				
Surrogate: 1,2-Dichlorobenzene-d	*65.53*		*100*		*65.5*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*76.61*		*100*		*76.6*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*88.36*		*100*		*88.4*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*73.15*		*100*		*73.2*	*0 - 200*			
LCS (B1K0073-BS1)					Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	108.9	10.0	100		109	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*67.70*		*100*		*67.7*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*80.26*		*100*		*80.3*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*94.50*		*100*		*94.5*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*82.70*		*100*		*82.7*	*0 - 200*			
Matrix Spike (B1K0073-MS1)		**Source: 1100061-04**			Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	385.4	10.0	100	300.5	84.8	0 - 200			
Surrogate: 1,2-Dichlorobenzene-d	*65.39*		*100*		*65.4*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*78.91*		*100*		*78.9*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*93.03*		*100*		*93.0*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*83.72*		*100*		*83.7*	*0 - 200*			
Matrix Spike Dup (B1K0073-MSD1)		**Source: 1100061-04**			Prepared: 11/8/2011 Analyzed: 11/10/2011				
1,4-Dioxane	387.1	10.0	100	300.5	86.5	0 - 200	0.440	200	
Surrogate: 1,2-Dichlorobenzene-d	*63.16*		*100*		*63.2*	*0 - 200*			
Surrogate: 2-Fluorobiphenyl	*75.07*		*100*		*75.1*	*0 - 200*			
Surrogate: 4-Terphenyl-d14	*85.81*		*100*		*85.8*	*0 - 200*			
Surrogate: Nitrobenzene-d5	*80.72*		*100*		*80.7*	*0 - 200*			

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0068 - MSSEMI_ISOTOPEDILN									
Blank (B1K0068-BLK1)					Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	ND	0.2			NR				
Surrogate: 1,2-Dichlorobenzene-d	*0.8078*		*1.00*		*80.8*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7421*		*1.00*		*74.2*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.9813*		*1.00*		*98.1*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8560*		*1.00*		*85.6*	*50 - 136*			
LCS (B1K0068-BS1)					Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.138	0.2	1.00		114	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*0.7727*		*1.00*		*77.3*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7399*		*1.00*		*74.0*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8954*		*1.00*		*89.5*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8679*		*1.00*		*86.8*	*50 - 136*			
Matrix Spike (B1K0068-MS1)		**Source: 1100061-06**			Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.222	0.2	1.00	ND	122	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*0.7918*		*1.00*		*79.2*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7680*		*1.00*		*76.8*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8661*		*1.00*		*86.6*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8901*		*1.00*		*89.0*	*50 - 136*			
Matrix Spike Dup (B1K0068-MSD1)		**Source: 1100061-06**			Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.253	0.2	1.00	ND	125	70 - 130	2.50	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.8228*		*1.00*		*82.3*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7976*		*1.00*		*79.8*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8919*		*1.00*		*89.2*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.9331*		*1.00*		*93.3*	*50 - 136*			

Notes and Definitions

M3	Matrix spike recovery outside of acceptance limit due to disproportionate concentration of the analyte to spike level. The analytical batch was validated by the laboratory control sample.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/3/11 PAGE 1 OF 1

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Beam, Daniel Mora	SAMPLER (PRINTED): Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MSD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	MS/MSD collected	LABORATORY INFORMATION / REMARKS
11806l - 1	TB-110311	11/3/11	730				X	X				X	2		X			X				X		ATL
2	MW-31		837		X			X				X	3		X					X				Attn: Rachelle Arada
	↓		↓		X							X		1			X							
3	MW-28		940		X			X				X	3		X			X						
	↓		↓		X							X		1		X								
4	MW-29		1045		X			X				X	3		X					X			X	+6 VOAs
	↓		↓		X							X		1			X						X	+2 L Amber
5	MW-32A		1243		X			X				X	3		X			X						
	↓		↓		X							X		1		X								
6	MW-32C		1536		X			X				X	3		X			X					X	+6 VOAs
	↓		↓		X							X		1		X							X	+2 L Amber
7	MW-32B		1703		X			X				X	3		X					X				
	↓	↓	↓		X							X		1		X								

Total number of Containers per analysis: WHH 10

Total No. of Containers: 26

Relinquished by:	Date	Time	Received by:	Date	Time
Company: HHA, INC	11/3/11	1715	Company: ATL	11/3/11	1715
Relinquished by:	Date	Time	Received by:	Date	Time
Company: ATL	11/3/11	1750	Company: ATL	11/3/11	1750

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt: 2.9°C ice

- ☐ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier ~~Hand-deliv~~
Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL - LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

21 November 2011

ACCREDITED IN ACCORDANCE WITH nelac

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(619) 521-8580

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

RE: ATL Work Order Number: 1100070

Client Reference : RAYTHEON MAIN, 532.30

Enclosed are the results for sample(s) received on November, 4 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/21/2011

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-110411	1100070-01	Lab H20	11/04/11 8:00	11/03/11 17:15
MW-0800	1100070-02	Groundwater	11/04/11 10:35	11/03/11 17:15
MW-08	1100070-03	Groundwater	11/04/11 10:45	11/03/11 17:15

CASE NARRATIVE

Sample Receiving / General Comments

Headspace <5-6mm was noted on all the voa vials for TB-110411.

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID TB-110411

Lab ID: 1100070-01

Volatile Organic Compounds by EPA 8260

Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,1-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Chloroform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	

Hargis & Associates, Inc.		
9171 Town Centre Drive, Suite 375	Project Number: RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To: Steve Netto	11/21/2011

Client Sample ID TB-110411

Lab ID: 1100070-01

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Toluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Trichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 18:58	
Surrogate: 1,2-Dichloroethane-d4	*88.6 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:58*	
Surrogate: 4-Bromofluorobenzene	*96.1 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:58*	
Surrogate: Dibromofluoromethane	*96.8 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:58*	
Surrogate: Toluene-d8	*99.8 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 18:58*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-0800
Lab ID: 1100070-02

Volatile Organic Compounds by EPA 8260

Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,1-Dichloroethene	**39.5**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Chloroform	**0.6**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-0800
Lab ID: 1100070-02

Volatile Organic Compounds by EPA 8260

Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**7.6**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Toluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Trichloroethene	**170**	5.0	NA	10	B1K0290	11/16/2011	11/16/11 21:16	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 20:57	
Surrogate: 1,2-Dichloroethane-d4	*89.4 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 20:57*	
Surrogate: 1,2-Dichloroethane-d4	*88.2 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 21:16*	
Surrogate: 4-Bromofluorobenzene	*96.6 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 20:57*	
Surrogate: 4-Bromofluorobenzene	*98.0 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 21:16*	
Surrogate: Dibromofluoromethane	*97.3 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 21:16*	
Surrogate: Dibromofluoromethane	*97.3 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 20:57*	
Surrogate: Toluene-d8	*101 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 21:16*	
Surrogate: Toluene-d8	*99.6 %*	*70 - 130*			B1K0290	11/16/2011	*11/16/11 20:57*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-0800
Lab ID: 1100070-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.4**	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 04:29	
Surrogate: 1,2-Dichlorobenzene-d4	*81.9 %*		*58 - 99*		B1K0068	11/08/2011	*11/09/11 04:29*	
Surrogate: 2-Fluorobiphenyl	*78.7 %*		*60 - 104*		B1K0068	11/08/2011	*11/09/11 04:29*	
Surrogate: 4-Terphenyl-d14	*93.9 %*		*65 - 127*		B1K0068	11/08/2011	*11/09/11 04:29*	
Surrogate: Nitrobenzene-d5	*84.6 %*		*50 - 136*		B1K0068	11/08/2011	*11/09/11 04:29*	

Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego , CA 92122

Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/21/2011

Client Sample ID MW-08
Lab ID: 1100070-03

Volatile Organic Compounds by EPA 8260 **Analyst: BD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,1,1-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,1,2,2-Tetrachloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,1,2-Trichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,1-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,1-Dichloroethene	**39.4**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,1-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2,3-Trichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2,3-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2,4-Trichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2,4-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2-Dibromo-3-chloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2-Dibromoethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2-Dichloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,3,5-Trimethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,3-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,3-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
1,4-Dichlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
2,2-Dichloropropane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
2-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
4-Chlorotoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
4-Isopropyltoluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Benzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Bromobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Bromodichloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Bromoform	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Bromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Carbon tetrachloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Chlorobenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Chloroethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Chloroform	**0.6**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Chloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	

Hargis & Associates, Inc.
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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-08
Lab ID: 1100070-03

Volatile Organic Compounds by EPA 8260

Analyst: BD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**9.2**	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
cis-1,3-Dichloropropene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Dibromochloromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Dibromomethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Dichlorodifluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Ethylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Hexachlorobutadiene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Isopropylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
m,p-Xylene	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Methylene chloride	ND	1.0	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
n-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
n-Propylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Naphthalene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
o-Xylene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
sec-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Styrene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
tert-Butylbenzene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Tetrachloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Toluene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
trans-1,2-Dichloroethene	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Trichloroethene	**200**	5.0	NA	10	B1K0290	11/16/2011	11/16/11 21:56	
Trichlorofluoromethane	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Vinyl chloride	ND	0.5	NA	1	B1K0290	11/16/2011	11/16/11 21:36	
Surrogate: 1,2-Dichloroethane-d4	*89.4 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:56*	
Surrogate: 1,2-Dichloroethane-d4	*90.6 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:36*	
Surrogate: 4-Bromofluorobenzene	*96.0 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:56*	
Surrogate: 4-Bromofluorobenzene	*98.6 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:36*	
Surrogate: Dibromofluoromethane	*97.9 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:36*	
Surrogate: Dibromofluoromethane	*96.8 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:56*	
Surrogate: Toluene-d8	*102 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:36*	
Surrogate: Toluene-d8	*99.6 %*		*70 - 130*		B1K0290	11/16/2011	*11/16/11 21:56*	

Hargis & Associates, Inc.
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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported:
11/21/2011

Client Sample ID MW-08
Lab ID: 1100070-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.4**	0.2	0.1	1	B1K0068	11/08/2011	11/09/11 04:56	
Surrogate: 1,2-Dichlorobenzene-d4	*79.9 %*	*58 - 99*			B1K0068	11/08/2011	*11/09/11 04:56*	
Surrogate: 2-Fluorobiphenyl	*79.4 %*	*60 - 104*			B1K0068	11/08/2011	*11/09/11 04:56*	
Surrogate: 4-Terphenyl-d14	*94.1 %*	*65 - 127*			B1K0068	11/08/2011	*11/09/11 04:56*	
Surrogate: Nitrobenzene-d5	*84.1 %*	*50 - 136*			B1K0068	11/08/2011	*11/09/11 04:56*	

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0290 - MSVOAW_LL									
Blank (B1K0290-BLK1)				Prepared: 11/16/2011 Analyzed: 11/16/2011					
1,1,1,2-Tetrachloroethane	ND	0.5			NR				
1,1,1-Trichloroethane	ND	0.5			NR				
1,1,2,2-Tetrachloroethane	ND	0.5			NR				
1,1,2-Trichloroethane	ND	0.5			NR				
1,1-Dichloroethane	ND	0.5			NR				
1,1-Dichloroethene	ND	0.5			NR				
1,1-Dichloropropene	ND	0.5			NR				
1,2,3-Trichloropropane	ND	0.5			NR				
1,2,3-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trichlorobenzene	ND	0.5			NR				
1,2,4-Trimethylbenzene	ND	0.5			NR				
1,2-Dibromo-3-chloropropane	ND	0.5			NR				
1,2-Dibromoethane	ND	0.5			NR				
1,2-Dichlorobenzene	ND	0.5			NR				
1,2-Dichloroethane	ND	0.5			NR				
1,2-Dichloropropane	ND	0.5			NR				
1,3,5-Trimethylbenzene	ND	0.5			NR				
1,3-Dichlorobenzene	ND	0.5			NR				
1,3-Dichloropropane	ND	0.5			NR				
1,4-Dichlorobenzene	ND	0.5			NR				
2,2-Dichloropropane	ND	0.5			NR				
2-Chlorotoluene	ND	0.5			NR				
4-Chlorotoluene	ND	0.5			NR				
4-Isopropyltoluene	ND	0.5			NR				
Benzene	ND	0.5			NR				
Bromobenzene	ND	0.5			NR				
Bromodichloromethane	ND	0.5			NR				
Bromoform	ND	0.5			NR				
Bromomethane	ND	0.5			NR				
Carbon tetrachloride	ND	0.5			NR				
Chlorobenzene	ND	0.5			NR				
Chloroethane	ND	0.5			NR				
Chloroform	ND	0.5			NR				
Chloromethane	ND	0.5			NR				
cis-1,2-Dichloroethene	ND	0.5			NR				
cis-1,3-Dichloropropene	ND	0.5			NR				
Dibromochloromethane	ND	0.5			NR				
Dibromomethane	ND	0.5			NR				
Dichlorodifluoromethane	ND	0.5			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0290 - MSVOAW_LL (continued)									
Blank (B1K0290-BLK1) - Continued				Prepared: 11/16/2011 Analyzed: 11/16/2011					
Ethylbenzene	ND	0.5			NR				
Hexachlorobutadiene	ND	0.5			NR				
Isopropylbenzene	ND	0.5			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.5			NR				
n-Propylbenzene	ND	0.5			NR				
Naphthalene	ND	0.5			NR				
o-Xylene	ND	0.5			NR				
sec-Butylbenzene	ND	0.5			NR				
Styrene	ND	0.5			NR				
tert-Butylbenzene	ND	0.5			NR				
Tetrachloroethene	ND	0.5			NR				
Toluene	ND	0.5			NR				
trans-1,2-Dichloroethene	ND	0.5			NR				
Trichloroethene	ND	0.5			NR				
Trichlorofluoromethane	ND	0.5			NR				
Vinyl chloride	ND	0.5			NR				
Surrogate: 1,2-Dichloroethane-d4	*21.95*		*25.0*		*87.8*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.06*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.22*		*25.0*		*96.9*	*70 - 130*			
Surrogate: Toluene-d8	*24.87*		*25.0*		*99.5*	*70 - 130*			
LCS (B1K0290-BS1)				Prepared: 11/16/2011 Analyzed: 11/16/2011					
1,1-Dichloroethene	17.60	0.5	20.0		88.0	70 - 130			
Benzene	37.47	0.5	40.0		93.7	70 - 130			
Chlorobenzene	20.50	0.5	20.0		102	70 - 130			
MTBE	21.39	0.5	20.0		107	70 - 130			
Toluene	39.25	0.5	40.0		98.1	70 - 130			
Trichloroethene	19.66	0.5	20.0		98.3	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.50*		*25.0*		*94.0*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.31*		*25.0*		*97.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24.26*		*25.0*		*97.0*	*70 - 130*			
Surrogate: Toluene-d8	*24.81*		*25.0*		*99.2*	*70 - 130*			
LCS Dup (B1K0290-BSD1)				Prepared: 11/16/2011 Analyzed: 11/16/2011					
1,1-Dichloroethene	18.22	0.5	20.0		91.1	70 - 130	3.46	20	
Benzene	38.26	0.5	40.0		95.6	70 - 130	2.09	20	
Chlorobenzene	20.77	0.5	20.0		104	70 - 130	1.31	20	
MTBE	20.98	0.5	20.0		105	70 - 130	1.94	20	
Toluene	40.06	0.5	40.0		100	70 - 130	2.04	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0290 - MSVOAW_LL (continued)									
LCS Dup (B1K0290-BSD1) - Continued					Prepared: 11/16/2011 Analyzed: 11/16/2011				
Trichloroethene	20.48	0.5	20.0		102	70 - 130	4.09	20	
Surrogate: 1,2-Dichloroethane-d4	*23.06*		*25.0*		*92.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.50*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23.75*		*25.0*		*95.0*	*70 - 130*			
Surrogate: Toluene-d8	*24.77*		*25.0*		*99.1*	*70 - 130*			
Matrix Spike (B1K0290-MS1)		**Source: 1100084-01**			Prepared: 11/16/2011 Analyzed: 11/16/2011				
1,1-Dichloroethene	20.92	0.5	20.0	ND	105	70 - 130			
Benzene	41.79	0.5	40.0	ND	104	70 - 130			
Chlorobenzene	22.23	0.5	20.0	ND	111	70 - 130			
MTBE	21.81	0.5	20.0	ND	109	70 - 130			
Toluene	43.90	0.5	40.0	ND	110	70 - 130			
Trichloroethene	22.55	0.5	20.0	ND	113	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23.36*		*25.0*		*93.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.43*		*25.0*		*97.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23.87*		*25.0*		*95.5*	*70 - 130*			
Surrogate: Toluene-d8	*24.66*		*25.0*		*98.6*	*70 - 130*			
Matrix Spike Dup (B1K0290-MSD1)		**Source: 1100084-01**			Prepared: 11/16/2011 Analyzed: 11/16/2011				
1,1-Dichloroethene	20.12	0.5	20.0	ND	101	70 - 130	3.90	20	
Benzene	40.07	0.5	40.0	ND	100	70 - 130	4.20	20	
Chlorobenzene	21.51	0.5	20.0	ND	108	70 - 130	3.29	20	
MTBE	21.51	0.5	20.0	ND	108	70 - 130	1.39	20	
Toluene	42.05	0.5	40.0	ND	105	70 - 130	4.30	20	
Trichloroethene	21.52	0.5	20.0	ND	108	70 - 130	4.67	20	
Surrogate: 1,2-Dichloroethane-d4	*22.85*		*25.0*		*91.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24.17*		*25.0*		*96.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23.86*		*25.0*		*95.4*	*70 - 130*			
Surrogate: Toluene-d8	*24.57*		*25.0*		*98.3*	*70 - 130*			

Hargis & Associates, Inc.
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Project Number: RAYTHEON MAIN, 532.30
Report To: Steve Netto

Reported: 11/21/2011

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1K0068 - MSSEMI_ISOTOPEDILN									
Blank (B1K0068-BLK1)					Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	ND	0.2			NR				
Surrogate: 1,2-Dichlorobenzene-d	*0.8078*		*1.00*		*80.8*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7421*		*1.00*		*74.2*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.9813*		*1.00*		*98.1*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8560*		*1.00*		*85.6*	*50 - 136*			
LCS (B1K0068-BS1)					Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.138	0.2	1.00		114	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*0.7727*		*1.00*		*77.3*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7399*		*1.00*		*74.0*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8954*		*1.00*		*89.5*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8679*		*1.00*		*86.8*	*50 - 136*			
Matrix Spike (B1K0068-MS1)		**Source: 1100061-06**			Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.222	0.2	1.00	ND	122	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d	*0.7918*		*1.00*		*79.2*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7680*		*1.00*		*76.8*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8661*		*1.00*		*86.6*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.8901*		*1.00*		*89.0*	*50 - 136*			
Matrix Spike Dup (B1K0068-MSD1)		**Source: 1100061-06**			Prepared: 11/8/2011 Analyzed: 11/8/2011				
1,4-Dioxane	1.253	0.2	1.00	ND	125	70 - 130	2.50	20	
Surrogate: 1,2-Dichlorobenzene-d	*0.8228*		*1.00*		*82.3*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.7976*		*1.00*		*79.8*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*0.8919*		*1.00*		*89.2*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.9331*		*1.00*		*93.3*	*50 - 136*			

Hargis & Associates, Inc.			
9171 Town Centre Drive, Suite 375	Project Number:	RAYTHEON MAIN, 532.30	Reported:
San Diego , CA 92122	Report To:	Steve Netto	11/21/2011

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/4/11 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
RAYTHEON MAIN	532.30
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Netto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: Standard TAT	LABORATORY INFORMATION / REMARKS
TB-110411	TB-110411	11/4/11	800				X	X				X	2		X			X				X	ATL
	MW-08[illegible]		1035		X			X				X	3		X					X		X	Attn: Rachelle Arace
	↓		↓		X							X		1		X						X	
	MW-08		1045		X			X				X	3		X					X		X	
	↓	↓	↓		X							X		1		X						X	

Total number of Containers per analysis: 8 2

Total No. of Containers: 10

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
Amanda Beam	11/4/11	1252	H+A Inc	[illegible]	11/4/11	1252	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL - LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: Info400@exova.com
W: www.exova.com

Testing. Advising. Assuring.

Certificate of Analysis

November 18, 2011

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No: 135297
Purchase Order: 532.30
Project Name: Raytheon Main
Samples Received: Eleven (11) Samples
Date Received: 11/03/2011

KC

Analysis	Page
Volatile Organics by EPA 624/8260B	2 - 8
1,4-Dioxane by Modified EPA 8270	9

Michael Shelton
Technical Director

Samina N. Hussain
Senior Chemist

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-31

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	28	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-31 (continued)

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	3	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 11-09-11
Date analyzed: 11-10-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	96	100
1,2-Dichloroethane-d_4	82-121	91	92
Toluene-d_8	87-110	103	105
Bromofluorobenzene	76-113	100	102

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-34B

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	4	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	340	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-34B (continued)

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	1	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 11-09-11
Date analyzed: 11-10-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	93	100
1,2-Dichloroethane-d_4	82-121	88	92
Toluene-d_8	87-110	101	105
Bromofluorobenzene	76-113	103	102

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-110211A

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	ND	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-110211A (continued)

Compound	Result	Parts Per Billion (µg/L) Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 11-09-11
Date analyzed: 11-10-11

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	96	100
1,2-Dichloroethane-d_4	82-121	91	92
Toluene-d_8	87-110	103	105
Bromofluorobenzene	76-113	105	102

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Quality Control Summary

Batch ID: MW-34B

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Benzene	ND	50.0	45.9	92	47.1	94	3
Chlorobenzene	ND	50.0	47.1	94	48.0	96	2
1,1-Dichloroethylene	337	50.0	441	NR	441	NR	0
Toluene	ND	50.0	48.0	96	48.8	98	2
Trichloroethylene	ND	50.0	44.5	89	46.5	93	4

NR - Not Reported; the sample result exceeds the amount spiked. The spike result of a lab fortified blank demonstrated acceptable 1,1-dichloroethylene recovery:

Batch ID:

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec
1,1-Dichloroethylene	ND	50.0	47.8	96

Quality Control Limits

Compound	% Recovery	RPD
Benzene	77-127	10
Chlorobenzene	80-116	9
1,1-Dichloroethylene	66-125	11
Toluene	81-118	10
Trichloroethylene	72-119	11

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EXOVA

1,4-Dioxane by Modified EPA 8270
Gas Chromatography/Mass Spectrometry

Sample ID	Parts Per Billion (µg/L)
MW-31	ND
MW-34B	220
Method Blank	ND
Detection Limit	1

Date Extracted: 11-09-11
Dates Analyzed: 11-11-11, 11-12-11

Quality Control Summary

Sample ID: Batch QC

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
1,4-Dioxane	ND	20.5	20.1	98	19.8	97	2

Quality Control Guidelines

Analyte	% Recovery	RPD
1,4-Dioxane	85 - 113	NMT 11

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HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/3/11 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
RAYTHEON MAIN	532.30
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Netto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Amanda Beam, Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H2O	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml VOA	1 L Amber	ANALYSIS REQUESTED 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING Standard TAT	LABORATORY INFORMATION / REMARKS
	TB-110211A	11/2/11	700				X	X				X	3		X			X				X	Exova
	MW-34B		1038		X			X				X	3		X					X		X	
	MW-34B		1038		X							X		1		X						X	
	MW-31	11/3/11	847		X			X				X	3		X					X		X	
	MW-31		847		X							X		1		X							

Total number of Containers per analysis: 3 1 — **Total No. of Containers:** 11

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
Amanda Beam	11/3/11	931	H+A Inc.				Exova
Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☑ No. of containers correct
- ☐ custody seals secure
- ☑ received good condition/cold
- ☑ conforms to COC document

Shipment Method: Courier/Drop off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

135297

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM ANALYTICAL RESULTS

November 02, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120342

RE: Raytheon FUllerton-Monthly, 532.15

Attention: Steve Netto

Enclosed are the results for sample(s) received on October 17, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: Raytheon FUllerton-Monthly, 532.15
Lab Order: 120342

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Analytical Comments EPA 300.0

Samples 120342-006C-MS and 120342-006C-MSD, Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for EPA 8270C(M)

Sample 120342-002B and 120342-004B, surrogate recovery biased high/low possibly due to matrix interferences. Sample was reanalyzed and demonstrated the same recovery. 1,4 Dioxane is an early eluting compound and the early eluting surrogate, 1,2-Dichlorobenzene-d4, is within criteria for all samples. The analytical batch was validated by the Laboratory Control Sample (LCS).

MB-76396, surrogate recovery biased high possibly due to prep error and/or instrument variance. Sample was reanalyzed and demonstrated the same recovery. 1,4 Dioxane is an early eluting compound and the early eluting surrogate, 1,2-Dichlorobenzene-d4, is within criteria for all samples. The analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB
Lab Order:	120342	**Collection Date:**	10/17/2011 9:00:00 AM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	LAB H2O
Lab ID:	120342-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
2-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
4-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Benzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Bromobenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Bromodichloromethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Bromoform	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Bromomethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Carbon tetrachloride	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Chlorobenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Chloroethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Chloroform	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Chloromethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 08:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB
Lab Order:	120342	**Collection Date:**	10/17/2011 9:00:00 AM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	LAB H2O
Lab ID:	120342-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Dibromochloromethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Dibromomethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Ethylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Isopropylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
m,p-Xylene	ND	1.0		µg/L	1	10/19/2011 08:54 PM
Methylene chloride	ND	1.0		µg/L	1	10/19/2011 08:54 PM
n-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
n-Propylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Naphthalene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
o-Xylene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
sec-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Styrene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
tert-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Tetrachloroethene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Toluene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Trichloroethene	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Vinyl chloride	ND	0.50		µg/L	1	10/19/2011 08:54 PM
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%REC	1	10/19/2011 08:54 PM
Surr: 4-Bromofluorobenzene	96.4	70-130		%REC	1	10/19/2011 08:54 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	10/19/2011 08:54 PM
Surr: Toluene-d8	110	70-130		%REC	1	10/19/2011 08:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120342	**Collection Date:**	10/17/2011 1:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,1-Dichloroethane	0.62	0.50		µg/L	1	10/19/2011 09:33 PM
1,1-Dichloroethene	67	0.50		µg/L	1	10/19/2011 09:33 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
2-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
4-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Benzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Bromobenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Bromodichloromethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Bromoform	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Bromomethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Carbon tetrachloride	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Chlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Chloroethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Chloroform	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Chloromethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120342	**Collection Date:**	10/17/2011 1:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Dibromochloromethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Dibromomethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Ethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Isopropylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
m,p-Xylene	ND	1.0		µg/L	1	10/19/2011 09:33 PM
Methylene chloride	ND	1.0		µg/L	1	10/19/2011 09:33 PM
n-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
n-Propylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Naphthalene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
o-Xylene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
sec-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Styrene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
tert-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Tetrachloroethene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Toluene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Trichloroethene	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Vinyl chloride	ND	0.50		µg/L	1	10/19/2011 09:33 PM
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	1	10/19/2011 09:33 PM
Surr: 4-Bromofluorobenzene	95.5	70-130		%REC	1	10/19/2011 09:33 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/19/2011 09:33 PM
Surr: Toluene-d8	109	70-130		%REC	1	10/19/2011 09:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120342	**Collection Date:**	10/17/2011 1:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_111024A	QC Batch: 76396			PrepDate: 10/21/2011	Analyst: **JSD**	
1,4-Dioxane	19	0.20		µg/L	1	10/25/2011 12:46 PM
Surr: 1,2-Dichlorobenzene-d4	79.5	58-99		%REC	1	10/25/2011 12:46 PM
Surr: 2-Fluorobiphenyl	97.1	60-104		%REC	1	10/25/2011 12:46 PM
Surr: 4-Terphenyl-d14	129	65-127	S	%REC	1	10/25/2011 12:46 PM
Surr: Nitrobenzene-d5	49.8	50-136	S	%REC	1	10/25/2011 12:46 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120342	**Collection Date:**	10/17/2011 1:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_111020A	QC Batch: 76379			PrepDate: 10/20/2011	Analyst: **PT**	
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	10/20/2011 08:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120342	**Collection Date:**	10/17/2011 1:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_111020B	QC Batch: 76398			PrepDate: 10/20/2011	Analyst: **PT**	
Total Dissolved Solids (Residue, Filterable)	630	10		mg/L	1	10/20/2011 11:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120342	**Collection Date:**	10/17/2011 1:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_111021A	QC Batch: R137703			PrepDate:		Analyst: **PT**
Bromide	0.48	0.050		mg/L	1	10/21/2011 09:01 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	120342	**Collection Date:**	10/17/2011 11:45:00 AM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_111020A	QC Batch: 76379			PrepDate: 10/20/2011	Analyst: **PT**	
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	10/20/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120342	**Collection Date:**	10/17/2011 12:05:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
2-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
4-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Benzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Bromobenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Bromodichloromethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Bromoform	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Bromomethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Carbon tetrachloride	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Chlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Chloroethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Chloroform	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Chloromethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120342	**Collection Date:**	10/17/2011 12:05:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Dibromochloromethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Dibromomethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Ethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Isopropylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
m,p-Xylene	ND	1.0		µg/L	1	10/19/2011 09:52 PM
Methylene chloride	ND	1.0		µg/L	1	10/19/2011 09:52 PM
n-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
n-Propylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Naphthalene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
o-Xylene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
sec-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Styrene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
tert-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Tetrachloroethene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Toluene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Trichloroethene	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Vinyl chloride	ND	0.50		µg/L	1	10/19/2011 09:52 PM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%REC	1	10/19/2011 09:52 PM
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	1	10/19/2011 09:52 PM
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/19/2011 09:52 PM
Surr: Toluene-d8	109	70-130		%REC	1	10/19/2011 09:52 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120342	**Collection Date:**	10/17/2011 12:05:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_111024A	QC Batch: 76396			PrepDate: 10/21/2011	Analyst: **JSD**	
1,4-Dioxane	0.36	0.20		µg/L	1	10/25/2011 01:14 PM
Surr: 1,2-Dichlorobenzene-d4	92.8	58-99		%REC	1	10/25/2011 01:14 PM
Surr: 2-Fluorobiphenyl	112	60-104	S	%REC	1	10/25/2011 01:14 PM
Surr: 4-Terphenyl-d14	127	65-127		%REC	1	10/25/2011 01:14 PM
Surr: Nitrobenzene-d5	62.8	50-136		%REC	1	10/25/2011 01:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120342	**Collection Date:**	10/17/2011 12:05:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_111020B	QC Batch: 76398			PrepDate: 10/20/2011	Analyst: **PT**	
Total Dissolved Solids (Residue, Filterable)	640	10		mg/L	1	10/20/2011 11:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120342	**Collection Date:**	10/17/2011 12:05:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_111021A	QC Batch: R137703			PrepDate:		Analyst: **PT**
Bromide	0.47	0.050		mg/L	1	10/21/2011 09:13 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	120342	**Collection Date:**	10/17/2011 12:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111020A QC Batch: A11VW203 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,1-Dichloroethane	0.52	0.50		µg/L	1	10/20/2011 02:51 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
2-Chlorotoluene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
4-Chlorotoluene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Benzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Bromobenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Bromodichloromethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Bromoform	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Bromomethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Carbon tetrachloride	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Chlorobenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Chloroethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Chloroform	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Chloromethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	10/20/2011 02:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	120342	**Collection Date:**	10/17/2011 12:15:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111020A QC Batch: A11VW203 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Dibromochloromethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Dibromomethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Ethylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Isopropylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
m,p-Xylene	ND	1.0		µg/L	1	10/20/2011 02:51 PM
Methylene chloride	ND	1.0		µg/L	1	10/20/2011 02:51 PM
n-Butylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
n-Propylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Naphthalene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
o-Xylene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
sec-Butylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Styrene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
tert-Butylbenzene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Tetrachloroethene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Toluene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Trichloroethene	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Vinyl chloride	ND	0.50		µg/L	1	10/20/2011 02:51 PM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	10/20/2011 02:51 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%REC	1	10/20/2011 02:51 PM
Surr: Dibromofluoromethane	106	70-130		%REC	1	10/20/2011 02:51 PM
Surr: Toluene-d8	110	70-130		%REC	1	10/20/2011 02:51 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120342	**Collection Date:**	10/17/2011 12:30:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,1-Dichloroethane	0.56	0.50		µg/L	1	10/19/2011 09:13 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
2-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
4-Chlorotoluene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Benzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Bromobenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Bromodichloromethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Bromoform	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Bromomethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Carbon tetrachloride	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Chlorobenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Chloroethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Chloroform	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Chloromethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120342	**Collection Date:**	10/17/2011 12:30:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111019B QC Batch: A11VW202 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Dibromochloromethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Dibromomethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Ethylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Isopropylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
m,p-Xylene	ND	1.0		µg/L	1	10/19/2011 09:13 PM
Methylene chloride	ND	1.0		µg/L	1	10/19/2011 09:13 PM
n-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
n-Propylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Naphthalene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
o-Xylene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
sec-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Styrene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
tert-Butylbenzene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Tetrachloroethene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Toluene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Trichloroethene	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Vinyl chloride	ND	0.50		µg/L	1	10/19/2011 09:13 PM
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%REC	1	10/19/2011 09:13 PM
Surr: 4-Bromofluorobenzene	95.5	70-130		%REC	1	10/19/2011 09:13 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	10/19/2011 09:13 PM
Surr: Toluene-d8	111	70-130		%REC	1	10/19/2011 09:13 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120342	**Collection Date:**	10/17/2011 12:30:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_111020B	QC Batch: 76398			PrepDate: 10/20/2011	Analyst: **PT**	
Total Dissolved Solids (Residue, Filterable)	640	10		mg/L	1	10/20/2011 11:00 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120342	**Collection Date:**	10/17/2011 12:30:00 PM
Project:	Raytheon FUllerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120342-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_111021A	QC Batch: R137703			PrepDate:		Analyst: **PT**
Bromide	0.47	0.050		mg/L	1	10/21/2011 09:24 AM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **120342-002D-DUP** SampType: **DUP** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **10/20/2011** RunNo: **137710**
Client ID: **EW-02** Batch ID: **76398** TestNo: **SM2540C** Analysis Date: **10/20/2011** SeqNo: **2262261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	630.000	10						634.0	0.633	10	

Sample ID: **LCS-76398** SampType: **LCS** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **10/20/2011** RunNo: **137710**
Client ID: **LCSW** Batch ID: **76398** TestNo: **SM2540C** Analysis Date: **10/20/2011** SeqNo: **2262264**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	997.000	10	970.0	0	103	80	120				

Sample ID: **MB-76398** SampType: **MBLK** TestCode: **160.1_2540C** Units: **mg/L** Prep Date: **10/20/2011** RunNo: **137710**
Client ID: **PBW** Batch ID: **76398** TestNo: **SM2540C** Analysis Date: **10/20/2011** SeqNo: **2262265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **120342-002C-DUP**	SampType: **DUP**	TestCode: **160.2_2540D**	Units: **mg/L**	Prep Date: **10/20/2011**	RunNo: **137685**
Client ID: **EW-02**	Batch ID: **76379**	TestNo: **SM2540D**		Analysis Date: **10/20/2011**	SeqNo: **2261717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-76379**	SampType: **LCS**	TestCode: **160.2_2540D**	Units: **mg/L**	Prep Date: **10/20/2011**	RunNo: **137685**
Client ID: **LCSW**	Batch ID: **76379**	TestNo: **SM2540D**		Analysis Date: **10/20/2011**	SeqNo: **2261720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	97.000	10	96.60	0	100	80	120				

Sample ID: **MB-76379**	SampType: **MBLK**	TestCode: **160.2_2540D**	Units: **mg/L**	Prep Date: **10/20/2011**	RunNo: **137685**
Client ID: **PBW**	Batch ID: **76379**	TestNo: **SM2540D**		Analysis Date: **10/20/2011**	SeqNo: **2261721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R137703**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **137703**
Client ID: **PBW**	Batch ID: **R137703**	TestNo: **EPA 300.0**		Analysis Date: **10/21/2011**	SeqNo: **2262003**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R137703**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **137703**
Client ID: **LCSW**	Batch ID: **R137703**	TestNo: **EPA 300.0**		Analysis Date: **10/21/2011**	SeqNo: **2262004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	1.076	0.050	1.000	0	108	90	110				

Sample ID: **120342-006C-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **137703**
Client ID: **CEFF**	Batch ID: **R137703**	TestNo: **EPA 300.0**		Analysis Date: **10/21/2011**	SeqNo: **2262008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.478	0.050						0.4662	2.56	20	

Sample ID: **120342-006C-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **137703**
Client ID: **CEFF**	Batch ID: **R137703**	TestNo: **EPA 300.0**		Analysis Date: **10/21/2011**	SeqNo: **2262009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	3.623	0.050	2.500	0.4662	126	80	120				S

Sample ID: **120342-006C-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **137703**
Client ID: **CEFF**	Batch ID: **R137703**	TestNo: **EPA 300.0**		Analysis Date: **10/21/2011**	SeqNo: **2262010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	3.469	0.050	2.500	0.4662	120	80	120	3.623	4.35	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111019LCS2** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137684**
Client ID: **LCSW** Batch ID: **A11VW202** TestNo: **EPA 8260B** Analysis Date: **10/19/2011** SeqNo: **2261700**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.110	0.50	20.00	0	90.6	70	130				
Benzene	39.260	0.50	40.00	0.2800	97.5	70	130				
Chlorobenzene	20.030	0.50	20.00	0	100	70	130				
MTBE	17.930	0.50	20.00	0	89.7	70	130				
Toluene	41.380	0.50	40.00	0	103	70	130				
Trichloroethene	20.300	0.50	20.00	0	102	70	130				
Surr: 1,2-Dichloroethane-d4	23.450		25.00		93.8	70	130				
Surr: 4-Bromofluorobenzene	24.620		25.00		98.5	70	130				
Surr: Dibromofluoromethane	24.710		25.00		98.8	70	130				
Surr: Toluene-d8	27.480		25.00		110	70	130				

Sample ID: **A111019LCSD** SampType: **LCSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137684**
Client ID: **LCSS02** Batch ID: **A11VW202** TestNo: **EPA 8260B** Analysis Date: **10/19/2011** SeqNo: **2261701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.910	0.50	20.00	0	94.6	70	130	18.11	4.32	20	
Benzene	40.120	0.50	40.00	0.2800	99.6	70	130	39.26	2.17	20	
Chlorobenzene	20.170	0.50	20.00	0	101	70	130	20.03	0.697	20	
MTBE	17.800	0.50	20.00	0	89.0	70	130	17.93	0.728	20	
Toluene	42.120	0.50	40.00	0	105	70	130	41.38	1.77	20	
Trichloroethene	20.490	0.50	20.00	0	102	70	130	20.30	0.932	20	
Surr: 1,2-Dichloroethane-d4	23.080		25.00		92.3	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.630		25.00		98.5	70	130		0	0	
Surr: Dibromofluoromethane	24.900		25.00		99.6	70	130		0	0	
Surr: Toluene-d8	27.500		25.00		110	70	130		0	0	

Sample ID: **A111019MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137684**
Client ID: **PBW** Batch ID: **A11VW202** TestNo: **EPA 8260B** Analysis Date: **10/19/2011** SeqNo: **2261702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111019MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137684**
Client ID: **PBW** Batch ID: **A11VW202** TestNo: **EPA 8260B** Analysis Date: **10/19/2011** SeqNo: **2261702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	0.280	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111019MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137684**
Client ID: **PBW** Batch ID: **A11VW202** TestNo: **EPA 8260B** Analysis Date: **10/19/2011** SeqNo: **2261702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.450		25.00		93.8	70	130				
Surr: 4-Bromofluorobenzene	23.680		25.00		94.7	70	130				
Surr: Dibromofluoromethane	25.620		25.00		102	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111019MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137684**
Client ID: **PBW** Batch ID: **A11VW202** TestNo: **EPA 8260B** Analysis Date: **10/19/2011** SeqNo: **2261702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	27.340		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111020LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137705**
Client ID: **LCSW** Batch ID: **A11VW203** TestNo: **EPA 8260B** Analysis Date: **10/20/2011** SeqNo: **2262108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.750	0.50	20.00	0	93.8	70	130				
Benzene	40.190	0.50	40.00	0	100	70	130				
Chlorobenzene	20.290	0.50	20.00	0	101	70	130				
MTBE	17.850	0.50	20.00	0	89.2	70	130				
Toluene	42.070	0.50	40.00	0	105	70	130				
Trichloroethene	20.770	0.50	20.00	0	104	70	130				
Surr: 1,2-Dichloroethane-d4	23.380		25.00		93.5	70	130				
Surr: 4-Bromofluorobenzene	24.880		25.00		99.5	70	130				
Surr: Dibromofluoromethane	25.140		25.00		101	70	130				
Surr: Toluene-d8	27.760		25.00		111	70	130				

Sample ID: **A111020LCSD** SampType: **LCSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137705**
Client ID: **LCSS02** Batch ID: **A11VW203** TestNo: **EPA 8260B** Analysis Date: **10/20/2011** SeqNo: **2262109**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18.340	0.50	20.00	0	91.7	70	130	18.75	2.21	20	
Benzene	40.310	0.50	40.00	0	101	70	130	40.19	0.298	20	
Chlorobenzene	20.070	0.50	20.00	0	100	70	130	20.29	1.09	20	
MTBE	18.330	0.50	20.00	0	91.7	70	130	17.85	2.65	20	
Toluene	41.980	0.50	40.00	0	105	70	130	42.07	0.214	20	
Trichloroethene	20.730	0.50	20.00	0	104	70	130	20.77	0.193	20	
Surr: 1,2-Dichloroethane-d4	23.720		25.00		94.9	70	130		0	0	
Surr: 4-Bromofluorobenzene	24.510		25.00		98.0	70	130		0	0	
Surr: Dibromofluoromethane	25.290		25.00		101	70	130		0	0	
Surr: Toluene-d8	27.330		25.00		109	70	130		0	0	

Sample ID: **A111020MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137705**
Client ID: **PBW** Batch ID: **A11VW203** TestNo: **EPA 8260B** Analysis Date: **10/20/2011** SeqNo: **2262110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111020MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137705**
Client ID: **PBW** Batch ID: **A11VW203** TestNo: **EPA 8260B** Analysis Date: **10/20/2011** SeqNo: **2262110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111020MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137705**
Client ID: **PBW** Batch ID: **A11VW203** TestNo: **EPA 8260B** Analysis Date: **10/20/2011** SeqNo: **2262110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	23.520		25.00		94.1	70	130				
Surr: 4-Bromofluorobenzene	23.850		25.00		95.4	70	130				
Surr: Dibromofluoromethane	25.610		25.00		102	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111020MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **137705**
Client ID: **PBW** Batch ID: **A11VW203** TestNo: **EPA 8260B** Analysis Date: **10/20/2011** SeqNo: **2262110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	27.370		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120342
Project: Raytheon FUllerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-76396**	SampType: **MBLK**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **10/21/2011**	RunNo: **137766**
Client ID: **PBW**	Batch ID: **76396**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **10/24/2011**	SeqNo: **2263214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.942		1.000		94.2	58	99				
Surr: 2-Fluorobiphenyl	1.195		1.000		120	60	104				S
Surr: 4-Terphenyl-d14	1.408		1.000		141	65	127				S
Surr: Nitrobenzene-d5	0.713		1.000		71.3	50	136				

Sample ID: **LCS-76396**	SampType: **LCS**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **10/21/2011**	RunNo: **137766**
Client ID: **LCSW**	Batch ID: **76396**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **10/24/2011**	SeqNo: **2263215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.057	0.20	1.000	0	106	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.692		1.000		69.2	58	99				
Surr: 2-Fluorobiphenyl	0.875		1.000		87.5	60	104				
Surr: 4-Terphenyl-d14	1.133		1.000		113	65	127				
Surr: Nitrobenzene-d5	0.507		1.000		50.7	50	136				

Sample ID: **LCSD-76396**	SampType: **LCSD**	TestCode: **8270_W_SIM**	Units: **µg/L**	Prep Date: **10/21/2011**	RunNo: **137766**
Client ID: **LCSS02**	Batch ID: **76396**	TestNo: **EPA 8270C(M**	**EPA 3510C**	Analysis Date: **10/24/2011**	SeqNo: **2263216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.068	0.20	1.000	0	107	70	130	1.057	0.997	30	
Surr: 1,2-Dichlorobenzene-d4	0.802		1.000		80.2	58	99		0	0	
Surr: 2-Fluorobiphenyl	1.011		1.000		101	60	104		0	0	
Surr: 4-Terphenyl-d14	1.204		1.000		120	65	127		0	0	
Surr: Nitrobenzene-d5	0.580		1.000		58.0	50	136		0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Client: Advanced Technology Laboratories
Job No.: 134905

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

Sample Preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
120342-002F / EW-02	ND
120342-004E / POX	9.9
120342-006D / CEFF	8.9
120342-006D / CEFF Duplicate	9.1
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 11-01-11

Calibration Summary

Sample ID: Laboratory Control Standard (50.0 ppb Second Source Standard)

Date Analyzed	Result	% Rec	% Rec Limits
11-01-11	51.3	103	80 - 120

Standard Curve (n=6) $r^2 \geq 0.999$

Quality Control Summary

Sample ID: 120342-006D / CEFF

Analyte	Sample Result	Duplicate Result	Sample RPD	Spike Conc	Spike Result	Spike % Rec
Bromate	8.9	9.1	2	20.0	27.0	90
QC Guidelines			10			75 - 125

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 FAX: (562) 989-4040

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, California 90670

TEL: 562 948-2225
FAX: 562 948-5850
Acct #:

Field Sampler: Kenneth Simon

17-Oct-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 317.0		
120342-002F / EW-02	Groundwater	10/17/2011 1:15:00 PM	8OZP	1		
120342-004E / POX	Groundwater	10/17/2011 12:05:00 PM	8OZP	1		
120342-006D / CEFF	Groundwater	10/17/2011 12:30:00 PM	8OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM.

Please use PO#: SC06776 Please fax results by: NORMAL TAT

ANALYZE THE SAMPLES FOR BROMATE BY EPA 317

PLEASE SEND REPORT TO RACHELLE ARADA

		Date/Time			Date/Time
Relinquished by:		10/17/11	**Received by:**		10/18/11 945
Relinquished by:		10/18/11 1231	**Received by:**	EXOVA	10-18-11 P12=29

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 10/17/11 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
Raytheon FUllerton-Monthly	532.15

PROJECT MANAGER Chris Ross — Phone No. 858-455-6500
QA MANAGER Steve Netto — Fax No. 858-455-6533

SAMPLER (SIGNATURE)

SAMPLER (PRINTED) KENNETH SIMON ~~Marcos Rodriguez~~

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H2O	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED VOCs by EPA 8260B	1,4-Dioxane by EPA 8270 SIM	Bromate by 317	TDS by SM2540C	TSS by SM2540D	Bromide by 300	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0 - 10	10 -100	100 - 1,000	> 1,000	SPECIAL HANDLING	LABORATORY INFORMATION / REMARKS
	TB	10/17/11	0900				X	X				X	2					X						X					ATL
	EW-02		1315		X			X					3	2	2		1	X	X	X	X	X	X		X				C/O Rachelle Arada
	PF		1145		X										1							X			X				3275 Walnut Ave.
	POX		1205		X			X					3	2	1		1	X	X	X	X		X	X					Signal Hill, CA
	CBT		1215		X			X				X	3					X						X					90807
	CEFF	10/17/11	1230		X			X				X	3	2	1			X		X	X		X	X					562-989-4045

Total number of Containers per analysis: 14 6 5 2

Total No. of Containers: 27

Relinquished by:	Date	Received by:	Date
	10/17/11		10/17/11
Company: I-TA INC	Time: 1430	Company: ATL	Time: 1430
Relinquished by:	Date	Received by:	Date
Company	Time	Company	Time

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: DROP-OFF
Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

3.2°C

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

November 14, 2011

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
TEL: (619) 249-3166
FAX: cell

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120594

RE: Raytheon Fullerton-Monthly, 532.15

Attention: Steve Netto

Enclosed are the results for sample(s) received on November 01, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

CLIENT: Hargis & Associates, Inc.
Project: Raytheon Fullerton-Monthly, 532.15
Lab Order: 120594

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-110111
Lab Order:	120594	**Collection Date:**	11/1/2011 12:00:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	LAB H2O
Lab ID:	120594-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Benzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Bromobenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Bromoform	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Bromomethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Chlorobenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Chloroethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Chloroform	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Chloromethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 03:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	TB-110111
Lab Order:	120594	**Collection Date:**	11/1/2011 12:00:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	LAB H2O
Lab ID:	120594-001A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Dibromomethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Ethylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
m,p-Xylene	ND	1.0		µg/L	1	11/2/2011 03:57 PM
Methylene chloride	ND	1.0		µg/L	1	11/2/2011 03:57 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Naphthalene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
o-Xylene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Styrene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Toluene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Trichloroethene	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Vinyl chloride	ND	0.50		µg/L	1	11/2/2011 03:57 PM
Surr: 1,2-Dichloroethane-d4	124	70-130		%REC	1	11/2/2011 03:57 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	11/2/2011 03:57 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	11/2/2011 03:57 PM
Surr: Toluene-d8	111	70-130		%REC	1	11/2/2011 03:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120594	**Collection Date:**	11/1/2011 1:45:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,1-Dichloroethane	0.69	0.50		µg/L	1	11/2/2011 05:36 PM
1,1-Dichloroethene	55	0.50		µg/L	1	11/2/2011 05:36 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Benzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Bromobenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Bromoform	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Bromomethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Chlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Chloroethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Chloroform	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Chloromethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 05:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120594	**Collection Date:**	11/1/2011 1:45:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-002A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Dibromomethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Ethylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
m,p-Xylene	ND	1.0		µg/L	1	11/2/2011 05:36 PM
Methylene chloride	ND	1.0		µg/L	1	11/2/2011 05:36 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Naphthalene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
o-Xylene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Styrene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Toluene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Trichloroethene	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Vinyl chloride	ND	0.50		µg/L	1	11/2/2011 05:36 PM
Surr: 1,2-Dichloroethane-d4	128	70-130		%REC	1	11/2/2011 05:36 PM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	11/2/2011 05:36 PM
Surr: Dibromofluoromethane	115	70-130		%REC	1	11/2/2011 05:36 PM
Surr: Toluene-d8	111	70-130		%REC	1	11/2/2011 05:36 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120594	**Collection Date:**	11/1/2011 1:45:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-002B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS: ISOTOPE DILUTION TECHNIQUE						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS 13_111102A	QC Batch: 76687			PrepDate: 11/1/2011		Analyst: **JSD**
1,4-Dioxane	22	2.0		µg/L	1	11/2/2011 05:21 PM
Surr: 1,2-Dichlorobenzene-d4	84.8	46-97		%REC	1	11/2/2011 05:21 PM
Surr: 2,4,6-Tribromophenol	80.7	59-124		%REC	1	11/2/2011 05:21 PM
Surr: 2-Chlorophenol-d4	74.6	49-93		%REC	1	11/2/2011 05:21 PM
Surr: 2-Fluorobiphenyl	85.4	57-107		%REC	1	11/2/2011 05:21 PM
Surr: 2-Fluorophenol	43.1	27-60		%REC	1	11/2/2011 05:21 PM
Surr: 4-Terphenyl-d14	82.0	69-132		%REC	1	11/2/2011 05:21 PM
Surr: Nitrobenzene-d5	83.7	52-107		%REC	1	11/2/2011 05:21 PM
Surr: Phenol-d5	32.4	15-50		%REC	1	11/2/2011 05:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120594	**Collection Date:**	11/1/2011 1:45:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-002C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_111102B	QC Batch: 76728			PrepDate: 11/2/2011		Analyst: **PT**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	11/2/2011 08:00 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120594	**Collection Date:**	11/1/2011 1:45:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-002D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_111107C	QC Batch: 76820			PrepDate: 11/7/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	640	10		mg/L	1	11/7/2011 08:03 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	EW-02
Lab Order:	120594	**Collection Date:**	11/1/2011 1:45:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-002E		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_111102B	QC Batch: R138129			PrepDate:		Analyst: **PT**
Bromide	0.43	0.050		mg/L	1	11/2/2011 12:35 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	PF
Lab Order:	120594	**Collection Date:**	11/1/2011 1:00:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE						
		SM2540D				
RunID: WETCHEM_111102B	QC Batch: 76728			PrepDate: 11/2/2011		Analyst: **PT**
Suspended Solids (Residue, Non-Filterable)	ND	10		mg/L	1	11/2/2011 08:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120594	**Collection Date:**	11/1/2011 1:05:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,1-Dichloroethane	0.52	0.50		µg/L	1	11/2/2011 05:17 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Benzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Bromobenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Bromoform	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Bromomethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Chlorobenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Chloroethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Chloroform	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Chloromethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 05:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120594	**Collection Date:**	11/1/2011 1:05:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-004A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Dibromomethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Ethylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
m,p-Xylene	ND	1.0		µg/L	1	11/2/2011 05:17 PM
Methylene chloride	ND	1.0		µg/L	1	11/2/2011 05:17 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Naphthalene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
o-Xylene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Styrene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Toluene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Trichloroethene	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Vinyl chloride	ND	0.50		µg/L	1	11/2/2011 05:17 PM
Surr: 1,2-Dichloroethane-d4	129	70-130		%REC	1	11/2/2011 05:17 PM
Surr: 4-Bromofluorobenzene	99.8	70-130		%REC	1	11/2/2011 05:17 PM
Surr: Dibromofluoromethane	118	70-130		%REC	1	11/2/2011 05:17 PM
Surr: Toluene-d8	110	70-130		%REC	1	11/2/2011 05:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120594	**Collection Date:**	11/1/2011 1:05:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-004B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-DIOXANE BY GC/MS-SIM: ISOTOPE DILUTION						
EPA 3510C				**EPA 8270C(M)**		
RunID: MS15_111108A	QC Batch: 76761			PrepDate: 11/4/2011		Analyst: **JSD**
1,4-Dioxane	0.33	0.20		µg/L	1	11/8/2011 11:22 AM
Surr: 1,2-Dichlorobenzene-d4	97.1	58-99		%REC	1	11/8/2011 11:22 AM
Surr: 2-Fluorobiphenyl	86.5	60-104		%REC	1	11/8/2011 11:22 AM
Surr: 4-Terphenyl-d14	103	65-127		%REC	1	11/8/2011 11:22 AM
Surr: Nitrobenzene-d5	111	50-136		%REC	1	11/8/2011 11:22 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120594	**Collection Date:**	11/1/2011 1:05:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-004C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_111107C	QC Batch: 76820			PrepDate: 11/7/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	630	10		mg/L	1	11/7/2011 08:03 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	POX
Lab Order:	120594	**Collection Date:**	11/1/2011 1:05:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-004D		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_111102B	QC Batch: R138129			PrepDate:		Analyst: **PT**
Bromide	0.42	0.050		mg/L	1	11/2/2011 12:47 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	120594	**Collection Date:**	11/1/2011 1:15:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,1-Dichloroethane	0.55	0.50		µg/L	1	11/2/2011 04:37 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Benzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Bromobenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Bromoform	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Bromomethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Chlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Chloroethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Chloroform	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Chloromethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 04:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CBT
Lab Order:	120594	**Collection Date:**	11/1/2011 1:15:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-005A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Dibromomethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Ethylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
m,p-Xylene	ND	1.0		µg/L	1	11/2/2011 04:37 PM
Methylene chloride	ND	1.0		µg/L	1	11/2/2011 04:37 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Naphthalene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
o-Xylene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Styrene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Toluene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Trichloroethene	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Vinyl chloride	ND	0.50		µg/L	1	11/2/2011 04:37 PM
Surr: 1,2-Dichloroethane-d4	129	70-130		%REC	1	11/2/2011 04:37 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	11/2/2011 04:37 PM
Surr: Dibromofluoromethane	115	70-130		%REC	1	11/2/2011 04:37 PM
Surr: Toluene-d8	112	70-130		%REC	1	11/2/2011 04:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120594	**Collection Date:**	11/1/2011 1:20:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A QC Batch: A11VW213 PrepDate: Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,1-Dichloroethane	0.56	0.50		µg/L	1	11/2/2011 04:16 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
2-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
4-Chlorotoluene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Benzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Bromobenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Bromodichloromethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Bromoform	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Bromomethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Carbon tetrachloride	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Chlorobenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Chloroethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Chloroform	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Chloromethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
cis-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 04:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120594	**Collection Date:**	11/1/2011 1:20:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-006A		

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS11_111102A | QC Batch: A11VW213 | PrepDate: | Analyst: **BD**

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Dibromochloromethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Dibromomethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Dichlorodifluoromethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Ethylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Hexachlorobutadiene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Isopropylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
m,p-Xylene	ND	1.0		µg/L	1	11/2/2011 04:16 PM
Methylene chloride	ND	1.0		µg/L	1	11/2/2011 04:16 PM
n-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
n-Propylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Naphthalene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
o-Xylene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
sec-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Styrene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
tert-Butylbenzene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Tetrachloroethene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Toluene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
trans-1,2-Dichloroethene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Trichloroethene	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Trichlorofluoromethane	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Vinyl chloride	ND	0.50		µg/L	1	11/2/2011 04:16 PM
Surr: 1,2-Dichloroethane-d4	126	70-130		%REC	1	11/2/2011 04:16 PM
Surr: 4-Bromofluorobenzene	98.9	70-130		%REC	1	11/2/2011 04:16 PM
Surr: Dibromofluoromethane	114	70-130		%REC	1	11/2/2011 04:16 PM
Surr: Toluene-d8	113	70-130		%REC	1	11/2/2011 04:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120594	**Collection Date:**	11/1/2011 1:20:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-006B		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE						
		SM2540C				
RunID: WETCHEM_111107C	QC Batch: 76820			PrepDate: 11/7/2011		Analyst: **PT**
Total Dissolved Solids (Residue, Filterable)	640	10		mg/L	1	11/7/2011 08:03 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Hargis & Associates, Inc.	**Client Sample ID:**	CEFF
Lab Order:	120594	**Collection Date:**	11/1/2011 1:20:00 PM
Project:	Raytheon Fullerton-Monthly, 532.15	**Matrix:**	GROUNDWATER
Lab ID:	120594-006C		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY						
		EPA 300.0				
RunID: IC3_111102B	QC Batch: R138129			PrepDate:		Analyst: **PT**
Bromide	0.43	0.050		mg/L	1	11/2/2011 12:58 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **120594-006B-DUP**	SampType: **DUP**	TestCode: **160.1_2540C**	Units: **mg/L**	Prep Date: **11/7/2011**	RunNo: **138239**
Client ID: **CEFF**	Batch ID: **76820**	TestNo: **SM2540C**		Analysis Date: **11/7/2011**	SeqNo: **2272510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	633.000	10						641.0	1.26	10	

Sample ID: **LCS-76820**	SampType: **LCS**	TestCode: **160.1_2540C**	Units: **mg/L**	Prep Date: **11/7/2011**	RunNo: **138239**
Client ID: **LCSW**	Batch ID: **76820**	TestNo: **SM2540C**		Analysis Date: **11/7/2011**	SeqNo: **2272511**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	984.000	10	970.0	0	101	80	120				

Sample ID: **MB-76820**	SampType: **MBLK**	TestCode: **160.1_2540C**	Units: **mg/L**	Prep Date: **11/7/2011**	RunNo: **138239**
Client ID: **PBW**	Batch ID: **76820**	TestNo: **SM2540C**		Analysis Date: **11/7/2011**	SeqNo: **2272512**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **120604-001A-DUP** SampType: **DUP** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **11/2/2011** RunNo: **138102**
Client ID: **ZZZZZZ** Batch ID: **76728** TestNo: **SM2540D** Analysis Date: **11/2/2011** SeqNo: **2269827**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10						0	0	10	

Sample ID: **LCS-76728** SampType: **LCS** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **11/2/2011** RunNo: **138102**
Client ID: **LCSW** Batch ID: **76728** TestNo: **SM2540D** Analysis Date: **11/2/2011** SeqNo: **2269828**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	94.000	10	96.60	0	97.3	80	120				

Sample ID: **MB-76728** SampType: **MBLK** TestCode: **160.2_2540D** Units: **mg/L** Prep Date: **11/2/2011** RunNo: **138102**
Client ID: **PBW** Batch ID: **76728** TestNo: **SM2540D** Analysis Date: **11/2/2011** SeqNo: **2269829**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_BR

Sample ID: **MB-R138129**	SampType: **MBLK**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **138129**
Client ID: **PBW**	Batch ID: **R138129**	TestNo: **EPA 300.0**		Analysis Date: **11/2/2011**	SeqNo: **2270430**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.050									

Sample ID: **LCS-R138129**	SampType: **LCS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **138129**
Client ID: **LCSW**	Batch ID: **R138129**	TestNo: **EPA 300.0**		Analysis Date: **11/2/2011**	SeqNo: **2270431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.979	0.050	1.000	0	97.9	90	110				

Sample ID: **120608-001B-DUP**	SampType: **DUP**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **138129**
Client ID: **ZZZZZZ**	Batch ID: **R138129**	TestNo: **EPA 300.0**		Analysis Date: **11/2/2011**	SeqNo: **2270436**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	0.428	0.25						0.4735	10.2	20	

Sample ID: **120608-001B-MS**	SampType: **MS**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **138129**
Client ID: **ZZZZZZ**	Batch ID: **R138129**	TestNo: **EPA 300.0**		Analysis Date: **11/2/2011**	SeqNo: **2270437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	13.515	0.25	12.50	0.4735	104	80	120				

Sample ID: **120608-001B-MSD**	SampType: **MSD**	TestCode: **300_W_BR**	Units: **mg/L**	Prep Date:	RunNo: **138129**
Client ID: **ZZZZZZ**	Batch ID: **R138129**	TestNo: **EPA 300.0**		Analysis Date: **11/2/2011**	SeqNo: **2270438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	13.371	0.25	12.50	0.4735	103	80	120	13.51	1.07	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102LCS1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **LCSW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	16.260	0.50	20.00	0	81.3	70	130				
Benzene	35.570	0.50	40.00	0	88.9	70	130				
Chlorobenzene	19.160	0.50	20.00	0	95.8	70	130				
MTBE	20.280	0.50	20.00	0	101	70	130				
Toluene	37.660	0.50	40.00	0	94.2	70	130				
Trichloroethene	19.040	0.50	20.00	0	95.2	70	130				
Surr: 1,2-Dichloroethane-d4	26.740		25.00		107	70	130				
Surr: 4-Bromofluorobenzene	26.200		25.00		105	70	130				
Surr: Dibromofluoromethane	25.210		25.00		101	70	130				
Surr: Toluene-d8	26.470		25.00		106	70	130				

Sample ID: **A111102LCSD** SampType: **LCSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **LCSS02** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15.010	0.50	20.00	0	75.0	70	130	16.26	7.99	20	
Benzene	35.610	0.50	40.00	0	89.0	70	130	35.57	0.112	20	
Chlorobenzene	18.950	0.50	20.00	0	94.8	70	130	19.16	1.10	20	
MTBE	20.320	0.50	20.00	0	102	70	130	20.28	0.197	20	
Toluene	37.610	0.50	40.00	0	94.0	70	130	37.66	0.133	20	
Trichloroethene	18.470	0.50	20.00	0	92.4	70	130	19.04	3.04	20	
Surr: 1,2-Dichloroethane-d4	27.290		25.00		109	70	130		0	0	
Surr: 4-Bromofluorobenzene	26.490		25.00		106	70	130		0	0	
Surr: Dibromofluoromethane	25.550		25.00		102	70	130		0	0	
Surr: Toluene-d8	27.240		25.00		109	70	130		0	0	

Sample ID: **A111102MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **PBW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **PBW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **PBW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	28.420		25.00		114	70	130				
Surr: 4-Bromofluorobenzene	24.990		25.00		100	70	130				
Surr: Dibromofluoromethane	27.060		25.00		108	70	130				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_WP_LL

Sample ID: **A111102MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **138119**
Client ID: **PBW** Batch ID: **A11VW213** TestNo: **EPA 8260B** Analysis Date: **11/2/2011** SeqNo: **2270296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	27.340		25.00		109	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **MB-76687** SampType: **MBLK** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **PBW** Batch ID: **76687** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	2.0									
Surr: 1,2-Dichlorobenzene-d4	75.880		100.0		75.9	46	97				
Surr: 2,4,6-Tribromophenol	79.350		100.0		79.4	59	124				
Surr: 2-Chlorophenol-d4	65.820		100.0		65.8	49	93				
Surr: 2-Fluorobiphenyl	79.270		100.0		79.3	57	107				
Surr: 2-Fluorophenol	35.470		100.0		35.5	27	60				
Surr: 4-Terphenyl-d14	83.270		100.0		83.3	69	132				
Surr: Nitrobenzene-d5	76.230		100.0		76.2	52	107				
Surr: Phenol-d5	25.380		100.0		25.4	15	50				

Sample ID: **LCS-76687** SampType: **LCS** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSW** Batch ID: **76687** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	95.430	2.0	100.0	0	95.4	70	130				
Surr: 1,2-Dichlorobenzene-d4	70.420		100.0		70.4	46	97				
Surr: 2,4,6-Tribromophenol	87.430		100.0		87.4	59	124				
Surr: 2-Chlorophenol-d4	63.570		100.0		63.6	49	93				
Surr: 2-Fluorobiphenyl	81.340		100.0		81.3	57	107				
Surr: 2-Fluorophenol	34.140		100.0		34.1	27	60				
Surr: 4-Terphenyl-d14	89.180		100.0		89.2	69	132				
Surr: Nitrobenzene-d5	76.120		100.0		76.1	52	107				
Surr: Phenol-d5	26.870		100.0		26.9	15	50				

Sample ID: **LCSD-76687** SampType: **LCSD** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSS02** Batch ID: **76687** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	100.130	2.0	100.0	0	100	70	130	95.43	4.81	20	
Surr: 1,2-Dichlorobenzene-d4	72.930		100.0		72.9	46	97		0	0	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_Dioxane_W

Sample ID: **LCSD-76687** SampType: **LCSD** TestCode: **8270_Dioxan** Units: **µg/L** Prep Date: **11/1/2011** RunNo: **138114**
Client ID: **LCSS02** Batch ID: **76687** TestNo: **EPA 8270C(M EPA 3510C** Analysis Date: **11/2/2011** SeqNo: **2270208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	89.740		100.0		89.7	59	124		0	0	
Surr: 2-Chlorophenol-d4	67.490		100.0		67.5	49	93		0	0	
Surr: 2-Fluorobiphenyl	84.180		100.0		84.2	57	107		0	0	
Surr: 2-Fluorophenol	38.000		100.0		38.0	27	60		0	0	
Surr: 4-Terphenyl-d14	95.790		100.0		95.8	69	132		0	0	
Surr: Nitrobenzene-d5	78.480		100.0		78.5	52	107		0	0	
Surr: Phenol-d5	29.000		100.0		29.0	15	50		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **MB-76761** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **PBW** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	ND	0.20									
Surr: 1,2-Dichlorobenzene-d4	0.892		1.000		89.2	58	99				
Surr: 2-Fluorobiphenyl	0.888		1.000		88.8	60	104				
Surr: 4-Terphenyl-d14	1.130		1.000		113	65	127				
Surr: Nitrobenzene-d5	1.052		1.000		105	50	136				

Sample ID: **LCS-76761** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **LCSW** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.868	0.20	1.000	0	86.8	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.808		1.000		80.8	58	99				
Surr: 2-Fluorobiphenyl	0.794		1.000		79.4	60	104				
Surr: 4-Terphenyl-d14	0.991		1.000		99.1	65	127				
Surr: Nitrobenzene-d5	0.932		1.000		93.2	50	136				

Sample ID: **120606-006BMS** SampType: **MS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **ZZZZZZ** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.905	0.20	1.000	0.06982	83.5	70	130				
Surr: 1,2-Dichlorobenzene-d4	0.867		1.000		86.7	58	99				
Surr: 2-Fluorobiphenyl	0.821		1.000		82.1	60	104				
Surr: 4-Terphenyl-d14	0.941		1.000		94.1	65	127				
Surr: Nitrobenzene-d5	1.055		1.000		105	50	136				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Hargis & Associates, Inc.
Work Order: 120594
Project: Raytheon Fullerton-Monthly, 532.15

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_W_SIMDIOX

Sample ID: **120606-006BMSD** SampType: **MSD** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **11/4/2011** RunNo: **138221**
Client ID: **ZZZZZZ** Batch ID: **76761** TestNo: **EPA 8270C(M** **EPA 3510C** Analysis Date: **11/8/2011** SeqNo: **2272301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	1.144	0.20	1.000	0.06982	107	70	130	0.9050	23.4	30	
Surr: 1,2-Dichlorobenzene-d4	0.846		1.000		84.6	58	99		0	0	
Surr: 2-Fluorobiphenyl	0.785		1.000		78.5	60	104		0	0	
Surr: 4-Terphenyl-d14	0.895		1.000		89.5	65	127		0	0	
Surr: Nitrobenzene-d5	1.021		1.000		102	50	136		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Client: Advanced Technology Laboratories
Job No.: 135291

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

Sample Preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations.

Sample ID	Bromate Parts per Billion (µg/L)
120594-002F / EW-02	ND
120594-004E / POX	11.9
120594-006D / CEFF	7.9
Method Blank	ND
Detection Limit	0.5

Date Analyzed: 11-04-11

Quality Control Summary

Sample ID: 120594-002F / EW-02

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	ND	16.0	16.0	100	15.5	97	3
QC Guidelines				75-125		75-125	10

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755-5225
www.atlglobal.com
TEL: (562) 989-4045 *FAX: (562) 989-4040*

CHAIN-OF-CUSTODY RECORD

QC Level: RTNE

Subcontractor:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, California 90670

TEL: 562 948-2225
FAX: 562 948-5850
Acct #:

Field Sampler: Marcos Rodriguez

01-Nov-11

Sample ID	Matrix	Date Collected	Bottle Type	Requested Tests		
				EPA 317.0		
120594-002F / EW-02	Groundwater	11/1/2011 1:45:00 PM	4OZP	1		
120594-004E / POX	Groundwater	11/1/2011 1:05:00 PM	4OZP	1		
120594-006D / CEFF	Groundwater	11/1/2011 1:20:00 PM	4OZP	1		

General Comments: Please email sample receipt acknowledgement to the PM. (RA)

Please use PO#: SC06802 Please fax results by: Normal TAT

Please analyze sample for Bromate by EPA 317

Please send report to Rachelle Arada

		Date/Time		Date/Time
Relinquished by:		11/1/11 18:04	**Received by:**	
Relinquished by:			**Received by:**	

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY · ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/1/11 PAGE 1 OF 1

PROJECT NAME: Raytheon Fullerton-Monthly
PROJECT No./TASK No.: 532.15
PROJECT MANAGER: Chris Ross
QA MANAGER: Steve Netto
Phone No.: 858-455-6500
Fax No.: 858-455-6533
SAMPLER (SIGNATURE):
SAMPLER (PRINTED): Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED VOCs by 8260B	1,4-Dioxane by 8270 SIM	Bromate by 317	TDS by SM2540C	TSS by SM2540D	Bromide by 30D	1,4-DIOXANE BY EPA 8270D MOD	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING
	TB-11011	11/1/11	12:00				X	X				X	2					X							X				
	EW-02		13:45		X			X				X	3	2	2		1	X	X	X	X	X	X	X		X			
	PF		13:00		X							X			1							X				X			
	POX		13:05		X			X				X	3	2	1		1	X	X	X	X		X		X				
	CBT		13:15		X			X				X	3					X							X				
	CEFF		13:20		X			X				X	3	2	1			X		X	X		X		X				

Total number of Containers per analysis: 14 6 5 2

Total No. of Containers: 27

LABORATORY INFORMATION:
ATL
C/O Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA
90807
562-989-4045

REMARKS:
Please include mrodriguez@hargis.com in lab report distribution list
set 1,4-Dioxane MDL to 1.0 ppm

Relinquished by:	Date	Time	Received by:	Date	Time
H+A	11/1/11	16:50	ATL	11/1/11	1600
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
Company			Company		

INSTRUCTIONS
1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:
☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: DELIVER
Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

3-7

ADVANCED TECHNOLOGY LABORATORIES

December 28, 2011

ACCREDITED IN ACCORDANCE WITH nelac

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(619) 521-8580

Re: ATL Work Order Number : 1100530

Client Reference : Raytheon Fullerton - Quarterly, 532.15

Enclosed are the results for sample(s) received on December 07, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2011

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EW-02	1100530-01	Groundwater	12/07/11 17:10	12/07/11 19:27
POX	1100530-02	Groundwater	12/07/11 16:40	12/07/11 19:27
MW-21	1100530-03	Groundwater	12/07/11 17:30	12/07/11 19:27
INF	1100530-04	Groundwater	12/07/11 16:10	12/07/11 19:27

CASE NARRATIVE

The samples for SM 2320B (Alkalinity) analysis were subcontracted to AETL with DOHS Cert.#1541.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2011

Client Sample ID EW-02

Lab ID: 1100530-01

Anions Scan by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**82**	10	NA	20	B1L0700	12/09/2011	12/09/11 10:06	
Nitrate as N	**5.1**	0.10	NA	1	B1L0697	12/08/2011	12/08/11 12:55	
Nitrite, as N	ND	0.10	NA	1	B1L0697	12/08/2011	12/08/11 12:55	
ortho-Phosphate (As P)	ND	0.05	NA	1	B1L0697	12/08/2011	12/08/11 12:55	
Sulfate	**100**	20	NA	20	B1L0700	12/09/2011	12/09/11 10:06	

Chemical Oxygen Demand by EPA 410.4

Analyst: PT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	ND	5.0	4.8	1	B1L0413	12/13/2011	12/13/11 14:15	

Total Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	**0.01**	0.01	NA	1	B1L0371	12/13/2011	12/13/11 15:55	

Dissolved Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**96**	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:37	
Iron	ND	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:37	
Magnesium	**30**	0.10	NA	1	B1L0446	12/14/2011	12/16/11 17:37	
Manganese	ND	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:38	
Selenium	**0.01**	0.01	NA	1	B1L0446	12/14/2011	12/16/11 17:38	
Sodium	**82**	2.0	NA	2	B1L0446	12/14/2011	12/21/11 11:17	

Total Organic Carbon by SM 5310B

Analyst: PT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	NA	1	B1L0358	12/12/2011	12/12/11 13:52	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2011

Client Sample ID POX
Lab ID: 1100530-02

Anions Scan by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**140**	10	NA	20	B1L0700	12/09/2011	12/09/11 10:17	
Nitrate as N	**5.6**	0.10	NA	1	B1L0697	12/08/2011	12/08/11 13:06	
Nitrite, as N	ND	0.10	NA	1	B1L0697	12/08/2011	12/08/11 13:06	
ortho-Phosphate (As P)	ND	0.05	NA	1	B1L0697	12/08/2011	12/08/11 13:06	
Sulfate	**100**	20	NA	20	B1L0700	12/09/2011	12/09/11 10:17	

Chemical Oxygen Demand by EPA 410.4

Analyst: PT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	**18.5**	5.0	4.8	1	B1L0413	12/13/2011	12/13/11 14:15	

Total Organic Carbon by SM 5310B

Analyst: PT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	NA	1	B1L0358	12/12/2011	12/12/11 14:05	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2011

Client Sample ID MW-21
Lab ID: 1100530-03

Anions Scan by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**220**	25	NA	50	B1L0700	12/09/2011	12/09/11 10:28	
Nitrate as N	**7.0**	0.20	NA	2	B1L0697	12/08/2011	12/08/11 13:18	
Nitrite, as N	ND	0.20	NA	2	B1L0697	12/08/2011	12/08/11 13:18	
ortho-Phosphate (As P)	ND	0.10	NA	2	B1L0697	12/08/2011	12/08/11 13:18	
Sulfate	**62**	50	NA	50	B1L0700	12/09/2011	12/09/11 10:28	

Chemical Oxygen Demand by EPA 410.4

Analyst: PT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	**11.0**	5.0	4.8	1	B1L0413	12/13/2011	12/13/11 14:15	

Total Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	**0.02**	0.01	NA	1	B1L0371	12/13/2011	12/13/11 15:58	

Dissolved Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**160**	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:41	
Iron	ND	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:41	
Magnesium	**45**	0.10	NA	1	B1L0446	12/14/2011	12/16/11 17:41	
Manganese	ND	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:42	
Selenium	**0.01**	0.01	NA	1	B1L0446	12/14/2011	12/16/11 17:42	
Sodium	**160**	2.0	NA	2	B1L0446	12/14/2011	12/21/11 11:18	

Total Organic Carbon by SM 5310B

Analyst: PT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	**0.7**	3.0	NA	1	B1L0358	12/12/2011	12/12/11 14:19	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/28/2011

Client Sample ID INF

Lab ID: 1100530-04

Anions Scan by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**140**	10	NA	20	B1L0700	12/09/2011	12/09/11 10:40	
Nitrate as N	**5.6**	0.10	NA	1	B1L0697	12/08/2011	12/08/11 13:29	
Nitrite, as N	ND	0.10	NA	1	B1L0697	12/08/2011	12/08/11 13:29	
ortho-Phosphate (As P)	ND	0.05	NA	1	B1L0697	12/08/2011	12/08/11 13:29	
Sulfate	**100**	20	NA	20	B1L0700	12/09/2011	12/09/11 10:40	

Chemical Oxygen Demand by EPA 410.4 — **Analyst: PT**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	**6.5**	5.0	4.8	1	B1L0413	12/13/2011	12/13/11 14:15	

Total Metals by ICP-AES EPA 6010B — **Analyst: KK**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	**0.01**	0.01	NA	1	B1L0371	12/13/2011	12/13/11 16:02	

Dissolved Metals by ICP-AES EPA 6010B — **Analyst: KK**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**120**	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:44	
Iron	ND	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:44	
Magnesium	**35**	0.10	NA	1	B1L0446	12/14/2011	12/16/11 17:44	
Manganese	ND	0.50	NA	1	B1L0446	12/14/2011	12/16/11 17:45	
Selenium	**0.01**	0.01	NA	1	B1L0446	12/14/2011	12/16/11 17:45	
Sodium	**100**	2.0	NA	2	B1L0446	12/14/2011	12/21/11 11:18	

Total Organic Carbon by SM 5310B — **Analyst: PT**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	NA	1	B1L0358	12/12/2011	12/12/11 14:33	

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QUALITY CONTROL SECTION

Anions Scan by Ion Chromatography EPA 300.0 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0697 - No_Prep_IC_1									
Blank (B1L0697-BLK1)				Prepared: 12/8/2011 Analyzed: 12/8/2011					
Chloride	ND	0.50			NR				
Nitrate as N	ND	0.10			NR				
Nitrite, as N	ND	0.10			NR				
ortho-Phosphate (As P)	ND	0.05			NR				
Sulfate	ND	1.0			NR				
LCS (B1L0697-BS1)				Prepared: 12/8/2011 Analyzed: 12/8/2011					
Chloride	0.97	0.50	1.00		97	90 - 110			
Nitrate as N	0.93	0.10	1.00		93	90 - 110			
Nitrite, as N	0.93	0.10	1.00		93	90 - 110			
ortho-Phosphate (As P)	0.96	0.05	1.00		96	90 - 110			
Sulfate	1.9	1.0	2.00		94	90 - 110			
Duplicate (B1L0697-DUP1)		**Source: 1100530-04**		Prepared: 12/8/2011 Analyzed: 12/8/2011					
Chloride	280	0.50		280	NR		0.1	20	
Nitrate as N	5.6	0.10		5.6	NR		0.4	20	
Nitrite, as N	ND	0.10		ND	NR			20	
ortho-Phosphate (As P)	ND	0.05		ND	NR			20	
Sulfate	160	1.0		160	NR		0.2	20	
Matrix Spike (B1L0697-MS1)		**Source: 1100530-04**		Prepared: 12/8/2011 Analyzed: 12/8/2011					
Chloride	230	0.50	2.50	280	-1940	80 - 120			
Nitrate as N	7.9	0.10	2.50	5.6	92	80 - 120			
Nitrite, as N	4.6	0.10	2.50	ND	184	80 - 120			M1
ortho-Phosphate (As P)	1.2	0.05	2.50	ND	50	80 - 120			M1
Sulfate	150	1.0	5.00	160	-223	80 - 120			
Matrix Spike Dup (B1L0697-MSD1)		**Source: 1100530-04**		Prepared: 12/8/2011 Analyzed: 12/8/2011					
Chloride	230	0.50	2.50	280	-1890	80 - 120	NR	20	
Nitrate as N	8.0	0.10	2.50	5.6	93	80 - 120	2	20	
Nitrite, as N	4.6	0.10	2.50	ND	184	80 - 120	0.004	20	M1
ortho-Phosphate (As P)	2.3	0.05	2.50	ND	92	80 - 120	60	20	M1
Sulfate	150	1.0	5.00	160	-183	80 - 120	NR	20	
Batch B1L0700 - No_Prep_IC_1									
Blank (B1L0700-BLK1)				Prepared: 12/9/2011 Analyzed: 12/9/2011					
Chloride	ND	0.50			NR				
Nitrate as N	ND	0.10			NR				
Nitrite, as N	ND	0.10			NR				

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Anions Scan by Ion Chromatography EPA 300.0 - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0700 - No_Prep_IC_1 (continued)									
Blank (B1L0700-BLK1) - Continued				Prepared: 12/9/2011 Analyzed: 12/9/2011					
ortho-Phosphate (As P)	ND	0.05			NR				
Sulfate	ND	1.0			NR				
LCS (B1L0700-BS1)				Prepared: 12/9/2011 Analyzed: 12/9/2011					
Chloride	1.0	0.50	1.00		100	90 - 110			
Nitrate as N	0.95	0.10	1.00		95	90 - 110			
Nitrite, as N	0.95	0.10	1.00		95	90 - 110			
ortho-Phosphate (As P)	1.0	0.05	1.00		100	90 - 110			
Sulfate	2.0	1.0	2.00		98	90 - 110			
Duplicate (B1L0700-DUP1)		**Source: 1100530-04RE1**		Prepared: 12/9/2011 Analyzed: 12/9/2011					
Chloride	140	10		140	NR		1	20	
Nitrate as N	16	2.0		16	NR		0.6	20	
Nitrite, as N	ND	2.0		ND	NR			20	
ortho-Phosphate (As P)	ND	1.0		ND	NR			20	
Sulfate	100	20		100	NR		0.7	20	
Matrix Spike (B1L0700-MS1)		**Source: 1100530-04RE1**		Prepared: 12/9/2011 Analyzed: 12/9/2011					
Chloride	9.3		2.50	7.0	90	80 - 120			
Nitrate as N	55		2.50	0.79	2190	80 - 120			
Nitrite, as N	52		2.50	ND	2100	80 - 120			
ortho-Phosphate (As P)	64		2.50	ND	2550	80 - 120			
Sulfate	10		5.00	5.0	108	80 - 120			
Matrix Spike Dup (B1L0700-MSD1)		**Source: 1100530-04RE1**		Prepared: 12/9/2011 Analyzed: 12/9/2011					
Chloride	9.2		2.50	7.0	88	80 - 120	3	20	
Nitrate as N	56		2.50	0.79	2190	80 - 120	0.1	20	
Nitrite, as N	53		2.50	ND	2100	80 - 120	0.3	20	
ortho-Phosphate (As P)	64		2.50	ND	2560	80 - 120	0.7	20	
Sulfate	10		5.00	5.0	102	80 - 120	6	20	

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Chemical Oxygen Demand by EPA 410.4 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0413 - Prep_WC_1_W									
Blank (B1L0413-BLK1)				Prepared: 12/13/2011 Analyzed: 12/13/2011					
Chemical Oxygen Demand	ND	5.0			NR				
LCS (B1L0413-BS1)				Prepared: 12/13/2011 Analyzed: 12/13/2011					
Chemical Oxygen Demand	499.5	5.0	500		100	80 - 120			
Matrix Spike (B1L0413-MS1)		**Source: 1100522-01**		Prepared: 12/13/2011 Analyzed: 12/13/2011					
Chemical Oxygen Demand	511		500	11.8	100	80 - 120			
Matrix Spike Dup (B1L0413-MSD1)		**Source: 1100522-01**		Prepared: 12/13/2011 Analyzed: 12/13/2011					
Chemical Oxygen Demand	518		500	11.8	101	80 - 120	1	20	

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Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0371 - EPA 3010A									
Blank (B1L0371-BLK1)					Prepared: 12/13/2011 Analyzed: 12/13/2011				
Selenium	ND	0.01			NR				
LCS (B1L0371-BS1)					Prepared: 12/13/2011 Analyzed: 12/13/2011				
Selenium	0.93	0.01	1.00		93.0	85 - 115			
Matrix Spike (B1L0371-MS1)		**Source: 1100532-02**			Prepared: 12/13/2011 Analyzed: 12/13/2011				
Selenium	2.4	0.01	2.50	0.01	96.7	78 - 116			
Matrix Spike Dup (B1L0371-MSD1)		**Source: 1100532-02**			Prepared: 12/13/2011 Analyzed: 12/13/2011				
Selenium	2.3	0.01	2.50	0.01	92.4	78 - 116	4.57	20	

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Dissolved Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0446 - EPA 3010A									
Blank (B1L0446-BLK1)				Prepared: 12/14/2011 Analyzed: 12/16/2011					
Calcium	ND	0.50			NR				
Iron	ND	0.50			NR				
Magnesium	ND	0.10			NR				
Manganese	ND	0.50			NR				
Selenium	ND	0.01			NR				
Sodium	ND	1.0			NR				
Blank (B1L0446-BLK2)				Prepared: 12/14/2011 Analyzed: 12/21/2011					
Calcium	ND	0.50			NR				
Iron	ND	0.50			NR				
Magnesium	ND	0.10			NR				
Manganese	ND	0.50			NR				
Selenium	ND	0.01			NR				
Sodium	ND	1.0			NR				
LCS (B1L0446-BS1)				Prepared: 12/14/2011 Analyzed: 12/16/2011					
Calcium	21	0.50	20.0		105	85 - 115			
Iron	21	0.50	20.0		103	85 - 115			
Magnesium	21	0.10	20.0		104	85 - 115			
Manganese	20	0.50	20.0		102	85 - 115			
Selenium	1.0	0.01	1.00		102	85 - 115			
Sodium	20	1.0	20.0		99.1	85 - 115			
LCS (B1L0446-BS2)				Prepared: 12/14/2011 Analyzed: 12/21/2011					
Calcium	ND	0.50	20.0		NR	85 - 115			
Iron	ND	0.50	20.0		NR	85 - 115			
Magnesium	ND	0.10	20.0		NR	85 - 115			
Manganese	ND	0.50	20.0		NR	85 - 115			
Selenium	ND	0.01	1.00		NR	85 - 115			
Sodium	20	1.0	20.0		99.4	85 - 115			
Matrix Spike (B1L0446-MS1)		**Source: 1100530-04**		Prepared: 12/14/2011 Analyzed: 12/16/2011					
Calcium	130	0.50	20.0	120	67.7	5 - 159			
Iron	20	0.50	20.0	0.03	98.7	71 - 118			
Magnesium	52	0.10	20.0	35	84.8	69 - 126			
Manganese	19	0.50	20.0	0.004	94.4	79 - 109			
Selenium	2.4	0.01	2.50	0.01	97.0	78 - 116			
Sodium	ND	1.0	20.0	ND	NR	70 - 130			M1
Matrix Spike (B1L0446-MS2)		**Source: 1100530-04**		Prepared: 12/14/2011 Analyzed: 12/21/2011					
Calcium	ND	0.50	20.0	120	-581	5 - 159			
Iron	ND	0.50	20.0	0.03	-0.152	71 - 118			

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Dissolved Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0446 - EPA 3010A (continued)									
Matrix Spike (B1L0446-MS2) - Continued		**Source: 1100530-04**		Prepared: 12/14/2011 Analyzed: 12/21/2011					
Magnesium	ND	0.10	20.0	35	-176	69 - 126			
Manganese	ND	0.50	20.0	0.004	-0.0224	79 - 109			
Selenium	ND	0.01	2.50	0.01	-0.461	78 - 116			
Sodium	110	1.0	20.0	ND	571	70 - 130			E
Matrix Spike (B1L0446-MS3)		**Source: 1100530-04**		Prepared: 12/14/2011 Analyzed: 12/21/2011					
Calcium	ND	1.0	20.0	120	-581	5 - 159			
Iron	ND	1.0	20.0	0.03	-0.152	71 - 118			
Magnesium	ND	0.20	20.0	35	-176	69 - 126			
Manganese	ND	1.0	20.0	0.004	-0.0224	79 - 109			
Selenium	ND	0.02	2.50	0.01	-0.461	78 - 116			
Sodium	120	2.0	20.0	ND	598	70 - 130			M1
Matrix Spike Dup (B1L0446-MSD1)		**Source: 1100530-04**		Prepared: 12/14/2011 Analyzed: 12/16/2011					
Calcium	120	0.50	20.0	120	17.2	5 - 159	8.10	20	
Iron	19	0.50	20.0	0.03	93.6	71 - 118	5.27	20	
Magnesium	49	0.10	20.0	35	69.4	69 - 126	6.10	20	
Manganese	18	0.50	20.0	0.004	88.0	79 - 109	6.98	20	
Selenium	2.3	0.01	2.50	0.01	89.7	78 - 116	7.74	20	
Sodium	ND	1.0	20.0	ND	NR	70 - 130		20	M1
Matrix Spike Dup (B1L0446-MSD2)		**Source: 1100530-04**		Prepared: 12/14/2011 Analyzed: 12/21/2011					
Calcium	ND	0.50	20.0	120	-581	5 - 159		20	
Iron	ND	0.50	20.0	0.03	-0.152	71 - 118		20	
Magnesium	ND	0.10	20.0	35	-176	69 - 126		20	
Manganese	ND	0.50	20.0	0.004	-0.0224	79 - 109		20	
Selenium	ND	0.01	2.50	0.01	-0.461	78 - 116		20	
Sodium	120	1.0	20.0	ND	612	70 - 130	6.92	20	E

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Dissolved Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0446 - EPA 3010A (continued)									
Matrix Spike Dup (B1L0446-MSD3)		**Source: 1100530-04**		Prepared: 12/14/2011 Analyzed: 12/21/2011					
Calcium	ND	1.0	20.0	120	-581	5 - 159		20	
Iron	ND	1.0	20.0	0.03	-0.152	71 - 118		20	
Magnesium	ND	0.20	20.0	35	-176	69 - 126		20	
Manganese	ND	1.0	20.0	0.004	-0.0224	79 - 109		20	
Selenium	ND	0.02	2.50	0.01	-0.461	78 - 116		20	
Sodium	110	2.0	20.0	ND	565	70 - 130	5.63	20	M1

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Total Organic Carbon by SM 5310B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0358 - No_Prep_II_W									
Blank (B1L0358-BLK1)				Prepared: 12/12/2011 Analyzed: 12/12/2011					
Organic Carbon, Total	ND	3.0			NR				

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Total Organic Carbon by SM 5310B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0358 - No_Prep_II_W (continued)									
LCS (B1L0358-BS1)				Prepared: 12/12/2011 Analyzed: 12/12/2011					
Organic Carbon, Total	19.5	3.0	20.0		98	80 - 120			

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Total Organic Carbon by SM 5310B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0358 - No_Prep_II_W (continued)									
LCS Dup (B1L0358-BSD1)				Prepared: 12/12/2011 Analyzed: 12/12/2011					
Organic Carbon, Total	19.4	3.0	20.0		97	80 - 120	0.8	20	

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San Diego , CA 92122		Reported :	12/28/2011

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
E	Result value above quantitation range.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

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Ordered By

Advanced Technology Laboratories **3275 Walnut Street** **Signal Hill, CA 90755-5225**

Telephone: (562)989-4045
Attention: Diane Galvan

Number of Pages 2 **Date Received 12/12/2011** **Date Reported 12/21/2011**

Job Number	Order Date	Client
64080	12/12/2011	ATL

Project ID: 1100530
Project Name: PO# SC06924

Enclosed please find results of analyses of 3 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Diane Galvan

Project ID: 1100530
Date Received 12/12/2011
Date Reported 12/21/2011

Job Number	Order Date	Client
64080	12/12/2011	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 3 samples with the following specification on 12/12/2011.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
64080.01	1100530-01	12/07/2011	Aqueous	1
64080.02	1100530-03	12/07/2011	Aqueous	1
64080.03	1100530-04	12/07/2011	Aqueous	1

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Diane Galvan
Page: **2**

Project ID: 1100530
Project Name: PO# SC06924

AETL Job Number	Submitted	Client
64080	12/12/2011	ATL

Method: 310.1, Alkalinity, Titrimetric (pH 4.5), (EPA/600/4-79-020)

QC Batch No: 121311-1

Our Lab I.D.			Method Blank	64080.01	64080.02	64080.03	
Client Sample I.D.				1100530-01	1100530-03	1100530-04	
Date Sampled				12/07/2011	12/07/2011	12/07/2011	
Date Prepared			12/13/2011	12/13/2011	12/13/2011	12/13/2011	
Preparation Method			310.1	310.1	310.1	310.1	
Date Analyzed			12/13/2011	12/13/2011	12/13/2011	12/13/2011	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Alkalinity, Bicarbonate	2.0	2.0	ND	220	234	228	
Alkalinity, Carbonate	2.0	2.0	ND	ND	ND	ND	
Alkalinity, Hydroxide	2.0	2.0	ND	ND	ND	ND	
Alkalinity, Total	2.0	2.0	ND	220	234	228	

QUALITY CONTROL REPORT

QC Batch No: 121311-1; Dup or Spiked Sample: 64080.01; LCS: Clean Water; QC Prepared: 12/13/2011; QC Analyzed: 12/13/2011; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Alkalinity, Bicarbonate	220	20.0	240	100	20.0	240	100	<1	80-120	<15
Alkalinity, Total	220	20.0	240	100	20.0	240	100	<1	80-120	<15

QC Batch No: 121311-1; Dup or Spiked Sample: 64080.01; LCS: Clean Water; QC Prepared: 12/13/2011; QC Analyzed: 12/13/2011; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Alkalinity, Bicarbonate	220	222	<1	<15	20.0	20.0	100	80-120		
Alkalinity, Total	220	222	<1	<15	20.0	20.0	100	80-120		

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Data Qualifiers and Descriptors

Data Qualifier:

*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

American Environmental Testing Laboratory Inc.
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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

ADVANCED TECHNOLOGY LABORATORIES

Job # 64080

SUBCONTRACT ORDER

Work Order: 1100530

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada	PO#: SC06924 Standard TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires		Sampled	Comments (RA)
					Need excel EDD
ATL Lab#: 1100530-01 **Client Sample ID: EW-02**		**Groundwater**		**12/07/11 17:10**	
310.1_2320B_Speciated	12/15/11 17:00	12/21/11 17:10	64080.01		Alkalinity-Hydroxide, Bicarbonate, Carbonate and Total.
ATL Lab#: 1100530-03 **Client Sample ID: MW-21**		**Groundwater**		**12/07/11 17:30**	
310.1_2320B_Speciated	12/15/11 17:00	12/21/11 17:30	64080.02		Alkalinity - Hydroxide, Bicarbonate, Carbonate and Total.
ATL Lab#: 1100530-04 **Client Sample ID: INF**		**Groundwater**		**12/07/11 16:10**	
310.1_2320B_Speciated	12/15/11 17:00	12/21/11 16:10	64080.03		Alkalinity - Hydroxide, Bicarbonate, Carbonate and total.

Released By	Date	Received By	Date
	12/12/11	Herman	12-12-11 1345
Herman	12-12-11 1655	Jean Claude	12/12/11 1655
Released By	Date	Received By	Date

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 12/7/11 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
Raytheon Fullerton - Quarterly	532.15
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Netto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 125 ml Poly	250 ml Poly	500 ml Poly	40 ml VOA	ANALYSIS REQUESTED: Total Se by 6010B	Dissolved Se,Fe,Mn,Ca,Na,Mg by 6010B	Alkalinity (hydroxide,Bicarb, Carbonate and Total) by 310.1	TOC by 415.1	Anions 9Cl, SO4,NO3,NO2,PO4 by 300	COD by 410.4	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	SPECIAL HANDLING: Lab to filter adn acidify	Dissolved metals	Lab to filter anions
1100530-01	EW-02	12/07/11	17:10		X			X	X		X	X	1	1	3	1	X	X	X	X	X	X				X		X
2	POX	1	16:40		X			X	X		X	X	1		1	1			X	X	X	X						X
3	MW-21	1	17:30		X			X	X		X	X	1	1	3	1	X	X	X	X	X	X				X		X
4	INF	↓	16:10		X			X	X		X	X	1	1	3	1	X	X	X	X	X	X				X		X
Total number of Containers per analysis:													4	3	10	4										**Total No. of Containers:** 21		

Relinquished by:	Date	Received by:	Date
HHA	12/9/11	ARL	12/7/11
Company	Time 19:27	Company	Time 19:27
Relinquished by:	Date	Received by:	Date
Company	Time	Company	Time

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: DRIVER

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

LABORATORY INFORMATION

ATL
Signal Hill
562-989-4045

REMARKS

ORIGINAL - LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

December 29, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Town Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(619) 521-8580

Re: ATL Work Order Number : 1100531

Client Reference : Raytheon Fullerton - Monthly, 532.15

Enclosed are the results for sample(s) received on December 07, 2011 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-120711	1100531-01	Lab H2O	12/07/11 15:00	12/07/11 19:26
EW-02	1100531-02	Groundwater	12/07/11 17:10	12/07/11 19:26
PF	1100531-03	Groundwater	12/07/11 16:35	12/07/11 19:26
POX	1100531-04	Groundwater	12/07/11 16:40	12/07/11 19:26
CBT	1100531-05	Groundwater	12/07/11 17:00	12/07/11 19:26
CEFF	1100531-06	Groundwater	12/07/11 17:05	12/07/11 19:26
MW-21	1100531-07	Groundwater	12/07/11 17:30	12/07/11 19:26
INF	1100531-08	Groundwater	12/07/11 16:10	12/07/11 19:26

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

Client Sample ID TB-120711

Lab ID: 1100531-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,1,1-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,1,2-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,1-Dichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,1-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,1-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2,3-Trichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2-Dibromoethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2-Dichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,3-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,3-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
1,4-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
2,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
2-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
4-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
4-Isopropyltoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Benzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Bromobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Bromodichloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Bromoform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Bromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Carbon tetrachloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Chlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Chloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Chloroform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Chloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

Client Sample ID TB-120711

Lab ID: 1100531-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Dibromochloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Dibromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Dichlorodifluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Ethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Hexachlorobutadiene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Isopropylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
m,p-Xylene	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Methylene chloride	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
n-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
n-Propylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Naphthalene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
o-Xylene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
sec-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Styrene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
tert-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Tetrachloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Toluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Trichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Trichlorofluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Vinyl chloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:31	
Surrogate: 1,2-Dichloroethane-d4	*120 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 16:31*	
Surrogate: 4-Bromofluorobenzene	*103 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 16:31*	
Surrogate: Dibromofluoromethane	*104 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 16:31*	
Surrogate: Toluene-d8	*94.3 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 16:31*	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

Client Sample ID EW-02

Lab ID: 1100531-02

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.15**	0.05	NA	1	B1L0705	12/13/2011	12/13/11 09:29	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**640**	10	10	1	B1L0623	12/13/2011	12/14/11 10:00	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B1L0436	12/12/2011	12/12/11 17:00	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,1,1-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,1,2-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,1-Dichloroethane	**0.62**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,1-Dichloroethene	**62**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,1-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2,3-Trichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2-Dibromoethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2-Dichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

Client Sample ID EW-02

Lab ID: 1100531-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,3-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
1,4-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
2,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
2-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
4-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
4-Isopropyltoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Benzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Bromobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Bromodichloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Bromoform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Bromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Carbon tetrachloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Chlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Chloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Chloroform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Chloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Dibromochloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Dibromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Dichlorodifluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Ethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Hexachlorobutadiene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Isopropylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
m,p-Xylene	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Methylene chloride	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
n-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
n-Propylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Naphthalene	**6.4**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
o-Xylene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
sec-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Styrene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
tert-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

Client Sample ID EW-02

Lab ID: 1100531-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Toluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Trichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Trichlorofluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Vinyl chloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 17:30	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 17:30*	
Surrogate: 4-Bromofluorobenzene	*102 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 17:30*	
Surrogate: Dibromofluoromethane	*101 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 17:30*	
Surrogate: Toluene-d8	*94.6 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 17:30*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**20**	2.0	1.7	1	B1L0369	12/13/2011	12/14/11 16:14	
Surrogate: 1,2-Dichlorobenzene-d4	*79.3 %*	*37 - 93*			B1L0369	12/13/2011	*12/14/11 16:14*	
Surrogate: 2-Fluorobiphenyl	*87.2 %*	*51 - 100*			B1L0369	12/13/2011	*12/14/11 16:14*	
Surrogate: 4-Terphenyl-d14	*98.2 %*	*58 - 113*			B1L0369	12/13/2011	*12/14/11 16:14*	
Surrogate: Nitrobenzene-d5	*80.2 %*	*39 - 95*			B1L0369	12/13/2011	*12/14/11 16:14*	

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Lab ID: 1100531-03

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B1L0436	12/12/2011	12/12/11 17:00	

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San Diego , CA 92122	Reported : 12/29/2011

Client Sample ID POX
Lab ID: 1100531-04

Anions by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.24**	0.05	NA	1	B1L0705	12/13/2011	12/13/11 09:40	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**750**	10	10	1	B1L0623	12/13/2011	12/14/11 10:00	

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,1,1-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,1,2-Trichloroethane	**3.0**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,1-Dichloroethane	**8.4**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,1-Dichloroethene	**1.6**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,1-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2,3-Trichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2-Dibromoethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2-Dichloroethane	**1.3**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,3-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,3-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
1,4-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
2,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
2-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
4-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	

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Lab ID: 1100531-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Benzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Bromobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Bromodichloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Bromoform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Bromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Carbon tetrachloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Chlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Chloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Chloroform	**0.76**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Chloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Dibromochloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Dibromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Dichlorodifluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Ethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Hexachlorobutadiene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Isopropylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
m,p-Xylene	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Methylene chloride	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
n-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
n-Propylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Naphthalene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
o-Xylene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
sec-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Styrene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
tert-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Tetrachloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Toluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Trichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Trichlorofluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	
Vinyl chloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:31	

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Lab ID: 1100531-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*120 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 15:31*	
Surrogate: 4-Bromofluorobenzene	*102 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 15:31*	
Surrogate: Dibromofluoromethane	*105 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 15:31*	
Surrogate: Toluene-d8	*94.8 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 15:31*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**5.2**	0.24	0.15	1	B1L0414	12/14/2011	12/14/11 19:27	
Surrogate: 1,2-Dichlorobenzene-d4	*89.0 %*		*58 - 99*		B1L0414	12/14/2011	*12/14/11 19:27*	
Surrogate: 2-Fluorobiphenyl	*95.7 %*		*60 - 104*		B1L0414	12/14/2011	*12/14/11 19:27*	
Surrogate: 4-Terphenyl-d14	*135 %*		*65 - 127*		B1L0414	12/14/2011	*12/14/11 19:27*	S8
Surrogate: Nitrobenzene-d5	*107 %*		*50 - 136*		B1L0414	12/14/2011	*12/14/11 19:27*	

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Lab ID: 1100531-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,1,1-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,1,2-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,1-Dichloroethane	**2.6**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,1-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,1-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2,3-Trichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2-Dibromoethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2-Dichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,3-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,3-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
1,4-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
2,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
2-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
4-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
4-Isopropyltoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Benzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Bromobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Bromodichloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Bromoform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Bromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Carbon tetrachloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Chlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Chloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Chloroform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Chloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	

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Lab ID: 1100531-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Dibromochloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Dibromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Dichlorodifluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Ethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Hexachlorobutadiene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Isopropylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
m,p-Xylene	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Methylene chloride	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
n-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
n-Propylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Naphthalene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
o-Xylene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
sec-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Styrene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
tert-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Tetrachloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Toluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Trichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Trichlorofluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Vinyl chloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 15:51	
Surrogate: 1,2-Dichloroethane-d4	*120 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 15:51*	
Surrogate: 4-Bromofluorobenzene	*102 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 15:51*	
Surrogate: Dibromofluoromethane	*105 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 15:51*	
Surrogate: Toluene-d8	*95.4 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 15:51*	

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Client Sample ID CEFF
Lab ID: 1100531-06

Anions by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.23**	0.05	NA	1	B1L0705	12/13/2011	12/13/11 09:52	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**770**	10	10	1	B1L0623	12/13/2011	12/14/11 10:00	

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,1,1-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,1,2-Trichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,1-Dichloroethane	**0.71**	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,1-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,1-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2,3-Trichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2-Dibromoethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2-Dichloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,3-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,3-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
1,4-Dichlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
2,2-Dichloropropane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
2-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
4-Chlorotoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	

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Lab ID: 1100531-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Benzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Bromobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Bromodichloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Bromoform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Bromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Carbon tetrachloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Chlorobenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Chloroethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Chloroform	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Chloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Dibromochloromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Dibromomethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Dichlorodifluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Ethylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Hexachlorobutadiene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Isopropylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
m,p-Xylene	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Methylene chloride	ND	1.0	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
n-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
n-Propylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Naphthalene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
o-Xylene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
sec-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Styrene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
tert-Butylbenzene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Tetrachloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Toluene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Trichloroethene	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Trichlorofluoromethane	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	
Vinyl chloride	ND	0.50	NA	1	B1L0505	12/16/2011	12/16/11 16:11	

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Lab ID: 1100531-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*118 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 16:11*	
Surrogate: 4-Bromofluorobenzene	*103 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 16:11*	
Surrogate: Dibromofluoromethane	*104 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 16:11*	
Surrogate: Toluene-d8	*94.0 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 16:11*	

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Lab ID: 1100531-07

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.51**	0.10	NA	2	B1L0705	12/13/2011	12/13/11 10:03	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**1200**	12	12	1	B1L0623	12/13/2011	12/14/11 10:00	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	**17**	10	10	1	B1L0436	12/12/2011	12/12/11 17:00	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,1,1-Trichloroethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,1,2,2-Tetrachloroethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,1,2-Trichloroethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,1-Dichloroethane	**43**	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,1-Dichloroethene	**3200**	25	NA	50	B1L0553	12/19/2011	12/19/11 05:32	
1,1-Dichloropropene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2,3-Trichloropropane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2,3-Trichlorobenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2,4-Trichlorobenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2,4-Trimethylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2-Dibromo-3-chloropropane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2-Dibromoethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2-Dichlorobenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2-Dichloroethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,2-Dichloropropane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,3,5-Trimethylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,3-Dichlorobenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	

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Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
1,4-Dichlorobenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
2,2-Dichloropropane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
2-Chlorotoluene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
4-Chlorotoluene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
4-Isopropyltoluene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Benzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Bromobenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Bromodichloromethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Bromoform	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Bromomethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Carbon tetrachloride	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Chlorobenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Chloroethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Chloroform	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Chloromethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
cis-1,2-Dichloroethene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
cis-1,3-Dichloropropene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Dibromochloromethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Dibromomethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Dichlorodifluoromethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Ethylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Hexachlorobutadiene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Isopropylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
m,p-Xylene	ND	20	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Methylene chloride	ND	20	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
n-Butylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
n-Propylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Naphthalene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
o-Xylene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
sec-Butylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Styrene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
tert-Butylbenzene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Tetrachloroethene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	

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Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
trans-1,2-Dichloroethene	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Trichloroethene	**20**	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Trichlorofluoromethane	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Vinyl chloride	ND	10	NA	20	B1L0505	12/16/2011	12/16/11 17:50	
Surrogate: 1,2-Dichloroethane-d4	*124 %*		*70 - 130*		B1L0553	12/19/2011	*12/19/11 05:32*	
Surrogate: 1,2-Dichloroethane-d4	*112 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 17:50*	
Surrogate: 4-Bromofluorobenzene	*103 %*		*70 - 130*		B1L0553	12/19/2011	*12/19/11 05:32*	
Surrogate: 4-Bromofluorobenzene	*99.6 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 17:50*	
Surrogate: Dibromofluoromethane	*102 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 17:50*	
Surrogate: Dibromofluoromethane	*107 %*		*70 - 130*		B1L0553	12/19/2011	*12/19/11 05:32*	
Surrogate: Toluene-d8	*93.7 %*		*70 - 130*		B1L0505	12/16/2011	*12/16/11 17:50*	
Surrogate: Toluene-d8	*95.0 %*		*70 - 130*		B1L0553	12/19/2011	*12/19/11 05:32*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**450**	10	8.4	5	B1L0369	12/13/2011	12/15/11 13:16	
Surrogate: 1,2-Dichlorobenzene-d4	*72.5 %*		*37 - 93*		B1L0369	12/13/2011	*12/14/11 16:42*	
Surrogate: 1,2-Dichlorobenzene-d4	*70.2 %*		*37 - 93*		B1L0369	12/13/2011	*12/15/11 13:16*	
Surrogate: 2-Fluorobiphenyl	*82.6 %*		*51 - 100*		B1L0369	12/13/2011	*12/14/11 16:42*	
Surrogate: 2-Fluorobiphenyl	*74.4 %*		*51 - 100*		B1L0369	12/13/2011	*12/15/11 13:16*	
Surrogate: 4-Terphenyl-d14	*94.8 %*		*58 - 113*		B1L0369	12/13/2011	*12/14/11 16:42*	
Surrogate: 4-Terphenyl-d14	*99.2 %*		*58 - 113*		B1L0369	12/13/2011	*12/15/11 13:16*	
Surrogate: Nitrobenzene-d5	*73.7 %*		*39 - 95*		B1L0369	12/13/2011	*12/14/11 16:42*	
Surrogate: Nitrobenzene-d5	*92.4 %*		*39 - 95*		B1L0369	12/13/2011	*12/15/11 13:16*	

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Lab ID: 1100531-08

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.23**	0.05	NA	1	B1L0705	12/13/2011	12/13/11 10:15	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**760**	10	10	1	B1L0623	12/13/2011	12/14/11 10:00	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B1L0443	12/12/2011	12/13/11 15:10	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,1,1-Trichloroethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,1,2-Trichloroethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,1-Dichloroethane	**12**	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,1-Dichloroethene	**850**	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,1-Dichloropropene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2,3-Trichloropropane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2,3-Trichlorobenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2,4-Trichlorobenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2,4-Trimethylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2-Dibromo-3-chloropropane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2-Dibromoethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2-Dichlorobenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2-Dichloroethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,2-Dichloropropane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,3,5-Trimethylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	

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Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,3-Dichloropropane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
1,4-Dichlorobenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
2,2-Dichloropropane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
2-Chlorotoluene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
4-Chlorotoluene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
4-Isopropyltoluene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Benzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Bromobenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Bromodichloromethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Bromoform	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Bromomethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Carbon tetrachloride	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Chlorobenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Chloroethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Chloroform	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Chloromethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
cis-1,2-Dichloroethene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
cis-1,3-Dichloropropene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Dibromochloromethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Dibromomethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Dichlorodifluoromethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Ethylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Hexachlorobutadiene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Isopropylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
m,p-Xylene	ND	10	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Methylene chloride	ND	10	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
n-Butylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
n-Propylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Naphthalene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
o-Xylene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
sec-Butylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Styrene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
tert-Butylbenzene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	

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Client Sample ID INF

Lab ID: 1100531-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Toluene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
trans-1,2-Dichloroethene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Trichloroethene	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Trichlorofluoromethane	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Vinyl chloride	ND	5.0	NA	10	B1L0505	12/16/2011	12/16/11 18:10	
Surrogate: 1,2-Dichloroethane-d4	*116 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 18:10*	
Surrogate: 4-Bromofluorobenzene	*101 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 18:10*	
Surrogate: Dibromofluoromethane	*103 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 18:10*	
Surrogate: Toluene-d8	*94.3 %*	*70 - 130*			B1L0505	12/16/2011	*12/16/11 18:10*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**120**	2.0	1.7	1	B1L0369	12/13/2011	12/14/11 17:10	
Surrogate: 1,2-Dichlorobenzene-d4	*70.6 %*	*37 - 93*			B1L0369	12/13/2011	*12/14/11 17:10*	
Surrogate: 2-Fluorobiphenyl	*82.6 %*	*51 - 100*			B1L0369	12/13/2011	*12/14/11 17:10*	
Surrogate: 4-Terphenyl-d14	*97.2 %*	*58 - 113*			B1L0369	12/13/2011	*12/14/11 17:10*	
Surrogate: Nitrobenzene-d5	*72.6 %*	*39 - 95*			B1L0369	12/13/2011	*12/14/11 17:10*	

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QUALITY CONTROL SECTION

Anions by Ion Chromatography EPA 300.0 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0705 - No_Prep_IC_1									
Blank (B1L0705-BLK1)				Prepared: 12/13/2011 Analyzed: 12/13/2011					
Bromide	ND	0.05			NR				
LCS (B1L0705-BS1)				Prepared: 12/13/2011 Analyzed: 12/13/2011					
Bromide	0.95	0.05	1.00		95	90 - 110			
Duplicate (B1L0705-DUP1)		**Source: 1100610-01**		Prepared: 12/13/2011 Analyzed: 12/13/2011					
Bromide	ND	0.05		ND	NR			20	
Matrix Spike (B1L0705-MS1)		**Source: 1100610-01**		Prepared: 12/13/2011 Analyzed: 12/13/2011					
Bromide	2.6	0.05	2.50	ND	106	80 - 120			
Matrix Spike Dup (B1L0705-MSD1)		**Source: 1100610-01**		Prepared: 12/13/2011 Analyzed: 12/13/2011					
Bromide	2.6	0.05	2.50	ND	106	80 - 120	0.4	20	

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Total Dissolved Solids (Residue, Filterable) by SM 2540C - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0623 - No_Prep_WC_1									
Blank (B1L0623-BLK1)				Prepared: 12/13/2011 Analyzed: 12/14/2011					
Residue, Dissolved	ND	10			NR				
LCS (B1L0623-BS1)				Prepared: 12/13/2011 Analyzed: 12/14/2011					
Residue, Dissolved	990	10	970		102	80 - 120			
Duplicate (B1L0623-DUP1)		**Source: 1100531-02**		Prepared: 12/13/2011 Analyzed: 12/14/2011					
Residue, Dissolved	660	10		640	NR		2	10	

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Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0436 - No_Prep_WC_1									
Blank (B1L0436-BLK1)				Prepared: 12/12/2011 Analyzed: 12/12/2011					
Residue, Suspended	ND	10			NR				
LCS (B1L0436-BS1)				Prepared: 12/12/2011 Analyzed: 12/12/2011					
Residue, Suspended	87	10	96.6		90	80 - 120			
Duplicate (B1L0436-DUP1)		**Source: 1100531-07**		Prepared: 12/12/2011 Analyzed: 12/12/2011					
Residue, Suspended	16	10		17	NR		6	10	
Batch B1L0443 - No_Prep_WC_1									
Blank (B1L0443-BLK1)				Prepared: 12/12/2011 Analyzed: 12/13/2011					
Residue, Suspended	ND	10			NR				
LCS (B1L0443-BS1)				Prepared: 12/12/2011 Analyzed: 12/13/2011					
Residue, Suspended	91	10	96.6		94	80 - 120			
Duplicate (B1L0443-DUP1)		**Source: 1100531-08**		Prepared: 12/12/2011 Analyzed: 12/13/2011					
Residue, Suspended	ND	10		ND	NR			10	

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0505 - MSVOAW_LL									
Blank (B1L0505-BLK1)				Prepared: 12/16/2011 Analyzed: 12/16/2011					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0505 - MSVOAW_LL (continued)									
Blank (B1L0505-BLK1) - Continued				Prepared: 12/16/2011 Analyzed: 12/16/2011					
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*110*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*100*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.2*	*70 - 130*			
LCS (B1L0505-BS1)				Prepared: 12/16/2011 Analyzed: 12/16/2011					
1,1-Dichloroethene	18	0.50	20.0		91.5	70 - 130			
Benzene	35	0.50	40.0		87.0	70 - 130			
Chlorobenzene	20	0.50	20.0		101	70 - 130			
MTBE	20	0.50	20.0		99.0	70 - 130			
Toluene	36	0.50	40.0		90.8	70 - 130			
Trichloroethene	20	0.50	20.0		98.5	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*113*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.6*	*70 - 130*			
LCS (B1L0505-BS2)				Prepared: 12/16/2011 Analyzed: 12/16/2011					
1,1-Dichloroethene	18	0.50	20.0		90.1	70 - 130			
Benzene	35	0.50	40.0		87.3	70 - 130			
Chlorobenzene	20	0.50	20.0		102	70 - 130			
MTBE	21	0.50	20.0		104	70 - 130			
Toluene	36	0.50	40.0		90.8	70 - 130			
Trichloroethene	20	0.50	20.0		98.2	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0505 - MSVOAW_LL (continued)									
LCS (B1L0505-BS2) - Continued				Prepared: 12/16/2011 Analyzed: 12/16/2011					
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.0*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*93.9*	*70 - 130*			
LCS Dup (B1L0505-BSD1)				Prepared: 12/16/2011 Analyzed: 12/16/2011					
1,1-Dichloroethene	18	0.50	20.0		89.9	70 - 130	1.76	20	
Benzene	35	0.50	40.0		87.0	70 - 130	0.0575	20	
Chlorobenzene	20	0.50	20.0		101	70 - 130	0.396	20	
MTBE	21	0.50	20.0		104	70 - 130	4.88	20	
Toluene	36	0.50	40.0		91.2	70 - 130	0.385	20	
Trichloroethene	20	0.50	20.0		98.0	70 - 130	0.509	20	
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*111*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.9*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.7*	*70 - 130*			
LCS Dup (B1L0505-BSD2)				Prepared: 12/16/2011 Analyzed: 12/16/2011					
1,1-Dichloroethene	17	0.50	20.0		87.2	70 - 130	3.33		
Benzene	35	0.50	40.0		87.4	70 - 130	0.172		
Chlorobenzene	20	0.50	20.0		101	70 - 130	0.345		
MTBE	21	0.50	20.0		105	70 - 130	1.72		
Toluene	37	0.50	40.0		91.5	70 - 130	0.713		
Trichloroethene	20	0.50	20.0		99.4	70 - 130	1.27		
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*102*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*95.9*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.8*	*70 - 130*			
Batch B1L0553 - MSVOAW_LL									
Blank (B1L0553-BLK1)				Prepared: 12/19/2011 Analyzed: 12/19/2011					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0553 - MSVOAW_LL (continued)									
Blank (B1L0553-BLK1) - Continued				Prepared: 12/19/2011 Analyzed: 12/19/2011					
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0553 - MSVOAW_LL (continued)									
Blank (B1L0553-BLK1) - Continued				Prepared: 12/19/2011 Analyzed: 12/19/2011					
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.1*	*70 - 130*			
LCS (B1L0553-BS1)				Prepared: 12/18/2011 Analyzed: 12/18/2011					
1,1-Dichloroethene	18	0.50	20.0		90.4	70 - 130			
Benzene	34	0.50	40.0		85.8	70 - 130			
Chlorobenzene	20	0.50	20.0		101	70 - 130			
MTBE	21	0.50	20.0		104	70 - 130			
Toluene	36	0.50	40.0		90.0	70 - 130			
Trichloroethene	20	0.50	20.0		98.0	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.9*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.3*	*70 - 130*			
LCS (B1L0553-BS2)				Prepared: 12/18/2011 Analyzed: 12/18/2011					
1,1-Dichloroethene	18	0.50	20.0		91.2	70 - 130			
Benzene	35	0.50	40.0		86.8	70 - 130			
Chlorobenzene	20	0.50	20.0		100	70 - 130			
MTBE	21	0.50	20.0		104	70 - 130			
Toluene	37	0.50	40.0		91.8	70 - 130			
Trichloroethene	20	0.50	20.0		98.1	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*110*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*106*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.4*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.4*	*70 - 130*			
LCS Dup (B1L0553-BSD1)				Prepared: 12/18/2011 Analyzed: 12/18/2011					
1,1-Dichloroethene	18	0.50	20.0		90.4	70 - 130	0.0553	20	
Benzene	34	0.50	40.0		86.0	70 - 130	0.262	20	
Chlorobenzene	20	0.50	20.0		101	70 - 130	0.397	20	
MTBE	21	0.50	20.0		106	70 - 130	2.43	20	
Toluene	36	0.50	40.0		90.1	70 - 130	0.111	20	
Trichloroethene	20	0.50	20.0		97.8	70 - 130	0.153	20	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0553 - MSVOAW_LL (continued)									
LCS Dup (B1L0553-BSD1) - Continued				Prepared: 12/18/2011 Analyzed: 12/18/2011					
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.0*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.1*	*70 - 130*			
LCS Dup (B1L0553-BSD2)				Prepared: 12/18/2011 Analyzed: 12/18/2011					
1,1-Dichloroethene	18	0.50	20.0		89.0	70 - 130	2.50		
Benzene	34	0.50	40.0		85.9	70 - 130	1.13		
Chlorobenzene	20	0.50	20.0		99.4	70 - 130	0.552		
MTBE	21	0.50	20.0		103	70 - 130	1.01		
Toluene	36	0.50	40.0		90.3	70 - 130	1.62		
Trichloroethene	20	0.50	20.0		98.2	70 - 130	0.153		
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.1*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.0*	*70 - 130*			
Duplicate (B1L0553-DUP1)		**Source: 1100653-04RE1**		Prepared: 12/19/2011 Analyzed: 12/19/2011					
1,1-Dichloroethene	ND	100		ND	NR			20	
Benzene	840	100		850	NR		0.237	20	
Chlorobenzene	ND	100		ND	NR			20	
MTBE	ND	100		ND	NR			20	
Toluene	1400	100		1400	NR		0.855	20	
Trichloroethene	ND	100		ND	NR			20	
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*27*		*25.0*		*106*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.4*	*70 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0369 - MSSEMI_ISOTOPEDILN									
Blank (B1L0369-BLK1)				Prepared: 12/13/2011 Analyzed: 12/13/2011					
1,4-Dioxane	ND	10			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*71*		*100*		*71.4*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*80*		*100*		*79.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*86*		*100*		*85.8*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*73*		*100*		*72.6*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0369 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B1L0369-BS1)				Prepared: 12/13/2011 Analyzed: 12/13/2011					
1,4-Dioxane	100	10	100		104	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*64*		*100*		*64.1*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*75*		*100*		*75.2*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*88*		*100*		*88.0*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*69*		*100*		*68.9*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0369 - MSSEMI_ISOTOPEDILN (continued)									
LCS Dup (B1L0369-BSD1)					Prepared: 12/13/2011 Analyzed: 12/13/2011				
1,4-Dioxane	100	10	100		103	70 - 130	1.00	20	
Surrogate: 1,2-Dichlorobenzene-d4	*68*		*100*		*68.3*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*82*		*100*		*81.9*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*91*		*100*		*91.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*75*		*100*		*74.7*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0414 - MSSEMI_ISOTOPEDILN									
Blank (B1L0414-BLK1)				Prepared: 12/14/2011 Analyzed: 12/14/2011					
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.83*		*1.00*		*82.7*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.93*		*1.00*		*92.9*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*110*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*1.0*		*1.00*		*99.8*	*50 - 136*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0414 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B1L0414-BS1)				Prepared: 12/14/2011 Analyzed: 12/14/2011					
1,4-Dioxane	1.2	0.20	1.00		116	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.82*		*1.00*		*81.8*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.88*		*1.00*		*88.4*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*1.0*		*1.00*		*102*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*1.0*		*1.00*		*100*	*50 - 136*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 12/29/2011

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1L0414 - MSSEMI_ISOTOPEDILN (continued)									
LCS Dup (B1L0414-BSD1)				Prepared: 12/14/2011 Analyzed: 12/14/2011					
1,4-Dioxane	1.2	0.20	1.00		119	70 - 130	2.28	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.83*		*1.00*		*82.9*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.88*		*1.00*		*88.4*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*1.0*		*1.00*		*104*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*1.0*		*1.00*		*101*	*50 - 136*			

Hargis & Associates, Inc.		Project Number :	Raytheon Fullerton - Monthly, 532.15
9171 Town Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	12/29/2011

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Client: Advanced Technology Laboratories
Job No.: 136180

Bromate by EPA 317
Ion Chromatography-Suppressed Conductivity

Column:	Dionex AS14 250 mm x 4 mm, AG14 Guard 50 mm x 4 mm
Eluent:	30.0 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Visible, 450 nm

Sample preparation: The samples were treated with OnGuard II H syringe filters prior to analysis to remove excess base.

Parts Per Billion (µg/L)

Sample ID	Result
1100531-02 EW-02	ND
1100531-04 POX	12.3
1100531-06 CEFF	9.3
1100531-07 MW-21	ND
1100531-08 INF	ND
Method Blank	ND
Detection Limit	0.4

Date Analyzed: 12-21-11

Quality Control Summary

Sample ID: 1100531-02 EW-02

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	ND	10	9.1	91	9.3	93	2
QC Guidelines				75 - 125		75 - 125	NMT 10

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1100531

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada

RECEIVING LABORATORY:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, CA 90670
Phone :(562) 948-2225
Fax: (562) 948-5850
PO#: SC06916 Standard TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments (RA)
ATL Lab#: 1100531-02	**Client Sample ID: EW-02**	**Groundwater**	**12/07/11 17:10**	
317.0	12/21/11 17:00	12/08/11 17:10		BROMATE
ATL Lab#: 1100531-04	**Client Sample ID: POX**	**Groundwater**	**12/07/11 16:40**	
317.0	12/21/11 17:00	12/08/11 16:40		BROMATE
ATL Lab#: 1100531-06	**Client Sample ID: CEFF**	**Groundwater**	**12/07/11 17:05**	
317.0	12/21/11 17:00	12/08/11 17:05		BROMATE
ATL Lab#: 1100531-07	**Client Sample ID: MW-21**	**Groundwater**	**12/07/11 17:30**	
317.0	12/21/11 17:00	12/08/11 17:30		BROMATE
ATL Lab#: 1100531-08	**Client Sample ID: INF**	**Groundwater**	**12/07/11 16:10**	
317.0	12/21/11 17:00	12/08/11 16:10		BROMATE

Released By	12/8/11 Date	Received By	12/9/11 950 Date
Released By	12/9/11 1304 Date	Received By < EXOVA	12-09-11 P1:01 Date

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY · ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 12/7/11 PAGE 1 OF 1

PROJECT NAME	Raytheon Fullerton-Monthly
PROJECT No./TASK No.	532.15
PROJECT MANAGER	Chris ROss
Phone No.	858-455-6500
QA MANAGER	Steve Netto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED VOCs by 8260B	1,4-Dioxane by 8270 SIM	Bromate by 317	TDS by SM2540C	TSS by SM2540D	Bromide by 300	1,4-DIOXANE BY EPA 8270 MOD	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING	REMARKS
	TB-120711	12/7/11	15:00				X	X				X	2				X	X							X					
	EW-02		17:10		X			X				X	3	2	2		1	X	X	X	X	X	X	X		X				
	PF		16:55		X							X			1							X				X				
	POX		16:40		X			X				X	3	2	1		1	X	X	X	X		X		X					
	CBT		17:00		X			X				X	3					X							X					
	CEFF		17:05		X			X				X	3	2	1			X		X			X		X					
	MW-21		17:30		X			X				X	3	2	2		1	X		X	X	X	X	X		X				
	INF		16:10		X			X				X	3	2	2		1	X		X	X	X	X	X		X				

Total number of Containers per analysis: 2 10 9 4

Total No. of Containers: 43

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	12/7/11	19:26	HtA		12/7/11	19:26	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ received good condition/cold
- ☐ custody seals secure
- ☐ conforms to COC document

Shipment Method: DRIVER

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

LAB INFORMATION:
ATL
C/O Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA
90807
562-989-4045

REMARKS:
Please include
mrodriguez@hargis.com
in lab report
distribution list
set 1,4-Dioxane
MDL to 1.0 ppm

Fernando Diwa

From: Rachelle Arada
Sent: Friday, December 09, 2011 3:03 PM
To: Fernando Diwa
Cc: customer.relations; Carmen Aguila
Subject: FW: Correction to Chain of Custody

Please log accordingly.

From: Marcos Rodriguez [mailto:MRODRIGUEZ@HARGIS.COM]
Sent: Friday, December 09, 2011 2:39 PM
To: Rachelle Arada
Subject: Correction to Chain of Custody

Rachelle-

I am writing to notify you of a mistake in the chain of custody we provided with samples submitted to ATL on Wednesday, December 7. We collected a sample for CEFF at 17:05 to be analyzed for TDS but did not mark this in the chain of custody. Can you please proceed to analyze the sample for TDS? I already notified Margo at testing services of this mistake. Please let me know if you have any questions.

Thank you.

Marcos Rodriguez, P.E.
Engineer
HARGIS + ASSOCIATES, INC.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Phone: (858) 455-6500 x155
Fax: (858) 410-7455

APPENDIX A

LABORATORY ANALYTICAL REPORTS
(FIRST QUARTER 2012)

GROUNDWATER SAMPLING ANALYTICAL RESULTS

ADVANCED TECHNOLOGY LABORATORIES

January 25, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200145

Client Reference : Raytheon Main, 532.03

Enclosed are the results for sample(s) received on January 13, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/25/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-011312	1200145-01	Lab H2O	1/13/12 8:00	1/13/12 16:45
MW-36	1200145-02	Groundwater	1/13/12 12:07	1/13/12 16:45
MW-3600	1200145-03	Groundwater	1/13/12 12:27	1/13/12 16:45

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/25/2012

Client Sample ID TB-011312

Lab ID: 1200145-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,1-Dichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,1-Dichloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
2-Chlorotoluene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
4-Chlorotoluene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
4-Isopropyltoluene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Benzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Bromobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Bromodichloromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Bromoform	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Bromomethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Carbon tetrachloride	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Chlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Chloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Chloroform	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Chloromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/25/2012

Client Sample ID TB-011312

Lab ID: 1200145-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Dibromochloromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Dibromomethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Ethylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Isopropylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
m,p-Xylene	ND	1.0	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Methylene chloride	ND	1.0	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
n-Butylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
n-Propylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Naphthalene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
o-Xylene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
sec-Butylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Styrene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
tert-Butylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Tetrachloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Toluene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Trichloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Vinyl chloride	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 14:41	
Surrogate: 1,2-Dichloroethane-d4	*95.8 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 14:41*	
Surrogate: 4-Bromofluorobenzene	*83.4 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 14:41*	
Surrogate: Dibromofluoromethane	*97.4 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 14:41*	
Surrogate: Toluene-d8	*98.9 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 14:41*	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
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San Diego , CA 92122	Reported : 01/25/2012

Client Sample ID MW-36
Lab ID: 1200145-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,1-Dichloroethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,1-Dichloroethene	**4.0**	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
2-Chlorotoluene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
4-Chlorotoluene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
4-Isopropyltoluene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Benzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Bromobenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Bromodichloromethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Bromoform	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Bromomethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Carbon tetrachloride	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Chlorobenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Chloroethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Chloroform	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Chloromethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
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San Diego , CA 92122	Reported : 01/25/2012

Client Sample ID MW-36
Lab ID: 1200145-02

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Dibromochloromethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Dibromomethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Ethylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Isopropylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
m,p-Xylene	ND	1.0	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Methylene chloride	ND	1.0	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
n-Butylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
n-Propylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Naphthalene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
o-Xylene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
sec-Butylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Styrene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
tert-Butylbenzene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Tetrachloroethene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Toluene	**5.9**	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Trichloroethene	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Vinyl chloride	ND	0.50	NA	1	B2A0387	01/15/2012	01/15/12 17:58	
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*70 - 130*		B2A0387	01/15/2012	*01/15/12 17:58*	
Surrogate: 4-Bromofluorobenzene	*89.9 %*		*70 - 130*		B2A0387	01/15/2012	*01/15/12 17:58*	
Surrogate: Dibromofluoromethane	*107 %*		*70 - 130*		B2A0387	01/15/2012	*01/15/12 17:58*	
Surrogate: Toluene-d8	*104 %*		*70 - 130*		B2A0387	01/15/2012	*01/15/12 17:58*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique

Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2A0395	01/16/2012	01/16/12 13:43	
Surrogate: 1,2-Dichlorobenzene-d4	*68.4 %*		*36 - 107*		B2A0395	01/16/2012	*01/16/12 13:43*	
Surrogate: 2-Fluorobiphenyl	*85.8 %*		*42 - 120*		B2A0395	01/16/2012	*01/16/12 13:43*	
Surrogate: 4-Terphenyl-d14	*98.0 %*		*67 - 142*		B2A0395	01/16/2012	*01/16/12 13:43*	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
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San Diego , CA 92122	Reported : 01/25/2012

Client Sample ID MW-36

Lab ID: 1200145-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Nitrobenzene-d5	*42.3 %*	*36 - 130*			B2A0395	01/16/2012	*01/16/12 13:43*	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
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San Diego , CA 92122	Reported : 01/25/2012

Client Sample ID MW-3600
Lab ID: 1200145-03

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,1-Dichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,1-Dichloroethene	**3.6**	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
2-Chlorotoluene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
4-Chlorotoluene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
4-Isopropyltoluene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Benzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Bromobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Bromodichloromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Bromoform	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Bromomethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Carbon tetrachloride	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Chlorobenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Chloroethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Chloroform	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Chloromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
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San Diego , CA 92122	Reported : 01/25/2012

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Lab ID: 1200145-03

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Dibromochloromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Dibromomethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Ethylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Isopropylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
m,p-Xylene	ND	1.0	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Methylene chloride	ND	1.0	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
n-Butylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
n-Propylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Naphthalene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
o-Xylene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
sec-Butylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Styrene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
tert-Butylbenzene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Tetrachloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Toluene	**7.0**	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Trichloroethene	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Vinyl chloride	ND	0.50	NA	1	B2A0494	01/19/2012	01/19/12 15:01	
Surrogate: 1,2-Dichloroethane-d4	*94.9 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 15:01*	
Surrogate: 4-Bromofluorobenzene	*83.6 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 15:01*	
Surrogate: Dibromofluoromethane	*97.2 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 15:01*	
Surrogate: Toluene-d8	*99.2 %*		*70 - 130*		B2A0494	01/19/2012	*01/19/12 15:01*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique

Analyst: JD

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2A0395	01/16/2012	01/16/12 14:12	
Surrogate: 1,2-Dichlorobenzene-d4	*75.3 %*		*36 - 107*		B2A0395	01/16/2012	*01/16/12 14:12*	
Surrogate: 2-Fluorobiphenyl	*92.6 %*		*42 - 120*		B2A0395	01/16/2012	*01/16/12 14:12*	
Surrogate: 4-Terphenyl-d14	*116 %*		*67 - 142*		B2A0395	01/16/2012	*01/16/12 14:12*	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/25/2012

Client Sample ID MW-3600

Lab ID: 1200145-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Nitrobenzene-d5	*46.2 %*	*36 - 130*			B2A0395	01/16/2012	*01/16/12 14:12*	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/25/2012

QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0387 - MSVOAW_LL									
Blank (B2A0387-BLK1)					Prepared: 1/15/2012 Analyzed: 1/15/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0387 - MSVOAW_LL (continued)									
Blank (B2A0387-BLK1) - Continued					Prepared: 1/15/2012 Analyzed: 1/15/2012				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*90.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*104*	*70 - 130*			
LCS (B2A0387-BS1)					Prepared: 1/15/2012 Analyzed: 1/15/2012				
1,1-Dichloroethene	19	0.50	20.0		93.8	70 - 130			
Benzene	40	0.50	40.0		100	70 - 130			
Chlorobenzene	21	0.50	20.0		104	70 - 130			
MTBE	21	0.50	20.0		106	70 - 130			
Toluene	42	0.50	40.0		105	70 - 130			
Trichloroethene	20	0.50	20.0		102	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			
LCS (B2A0387-BS2)					Prepared: 1/15/2012 Analyzed: 1/15/2012				
1,1-Dichloroethene	18	0.50	20.0		91.4	70 - 130			
Benzene	39	0.50	40.0		98.6	70 - 130			
Chlorobenzene	21	0.50	20.0		106	70 - 130			
MTBE	21	0.50	20.0		106	70 - 130			
Toluene	41	0.50	40.0		103	70 - 130			
Trichloroethene	20	0.50	20.0		101	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*106*	*70 - 130*			
LCS Dup (B2A0387-BSD1)					Prepared: 1/15/2012 Analyzed: 1/15/2012				
1,1-Dichloroethene	19	0.50	20.0		93.4	70 - 130	0.374	20	
Benzene	39	0.50	40.0		98.6	70 - 130	1.78	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0387 - MSVOAW_LL (continued)									
LCS Dup (B2A0387-BSD1) - Continued					Prepared: 1/15/2012 Analyzed: 1/15/2012				
Chlorobenzene	21	0.50	20.0		107	70 - 130	2.51	20	
MTBE	21	0.50	20.0		104	70 - 130	1.85	20	
Toluene	41	0.50	40.0		104	70 - 130	1.22	20	
Trichloroethene	20	0.50	20.0		102	70 - 130	0.440	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*91.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
LCS Dup (B2A0387-BSD2)					Prepared: 1/15/2012 Analyzed: 1/15/2012				
1,1-Dichloroethene	19	0.50	20.0		93.0	70 - 130	1.74		
Benzene	40	0.50	40.0		99.3	70 - 130	0.682		
Chlorobenzene	21	0.50	20.0		107	70 - 130	1.12		
MTBE	21	0.50	20.0		106	70 - 130	0.236		
Toluene	42	0.50	40.0		104	70 - 130	1.50		
Trichloroethene	20	0.50	20.0		101	70 - 130	0.248		
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*106*	*70 - 130*			
Batch B2A0494 - MSVOAW_LL									
Blank (B2A0494-BLK1)					Prepared: 1/19/2012 Analyzed: 1/19/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				

Hargis & Associates, Inc.
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Project Number : Raytheon Main, 532.03
Report To : Steve Netto
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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0494 - MSVOAW_LL (continued)									
Blank (B2A0494-BLK1) - Continued					Prepared: 1/19/2012 Analyzed: 1/19/2012				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*24*		*25.0*		*95.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.5*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*99.7*	*70 - 130*			
LCS (B2A0494-BS1)					Prepared: 1/19/2012 Analyzed: 1/19/2012				
1,1-Dichloroethene	20	0.50	20.0		101	70 - 130			
Benzene	39	0.50	40.0		97.0	70 - 130			
Chlorobenzene	21	0.50	20.0		107	70 - 130			
MTBE	20	0.50	20.0		102	70 - 130			
Toluene	40	0.50	40.0		101	70 - 130			
Trichloroethene	21	0.50	20.0		105	70 - 130			

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Project Number : Raytheon Main, 532.03
Report To : Steve Netto
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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0494 - MSVOAW_LL (continued)									
LCS (B2A0494-BS1) - Continued					Prepared: 1/19/2012 Analyzed: 1/19/2012				
Surrogate: 1,2-Dichloroethane-d4	*24*		*25.0*		*97.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.8*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*99.3*	*70 - 130*			
LCS (B2A0494-BS2)					Prepared: 1/19/2012 Analyzed: 1/19/2012				
1,1-Dichloroethene	19	0.50	20.0		97.1	70 - 130			
Benzene	39	0.50	40.0		97.7	70 - 130			
Chlorobenzene	21	0.50	20.0		107	70 - 130			
MTBE	21	0.50	20.0		107	70 - 130			
Toluene	41	0.50	40.0		103	70 - 130			
Trichloroethene	21	0.50	20.0		106	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*98.7*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.8*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*100*	*70 - 130*			
LCS Dup (B2A0494-BSD1)					Prepared: 1/19/2012 Analyzed: 1/19/2012				
1,1-Dichloroethene	19	0.50	20.0		94.4	70 - 130	6.36	20	
Benzene	39	0.50	40.0		97.8	70 - 130	0.847	20	
Chlorobenzene	21	0.50	20.0		106	70 - 130	0.565	20	
MTBE	22	0.50	20.0		111	70 - 130	8.26	20	
Toluene	41	0.50	40.0		103	70 - 130	1.86	20	
Trichloroethene	21	0.50	20.0		105	70 - 130	0.476	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.1*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*100*	*70 - 130*			
LCS Dup (B2A0494-BSD2)					Prepared: 1/19/2012 Analyzed: 1/19/2012				
1,1-Dichloroethene	20	0.50	20.0		101	70 - 130	3.89		
Benzene	39	0.50	40.0		96.5	70 - 130	1.18		
Chlorobenzene	21	0.50	20.0		106	70 - 130	0.516		
MTBE	21	0.50	20.0		105	70 - 130	1.51		
Toluene	41	0.50	40.0		102	70 - 130	0.977		
Trichloroethene	21	0.50	20.0		105	70 - 130	0.190		
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*98.7*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.1*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*99.5*	*70 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.03
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/25/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0395 - MSSEMI_ISOTOPEDILN									
Blank (B2A0395-BLK1)					Prepared: 1/16/2012 Analyzed: 1/16/2012				
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.73*		*1.00*		*73.2*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.93*		*1.00*		*92.8*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*114*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.45*		*1.00*		*45.0*	*36 - 130*			
LCS (B2A0395-BS1)					Prepared: 1/16/2012 Analyzed: 1/16/2012				
1,4-Dioxane	0.91	0.20	1.00		91.4	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.74*		*1.00*		*74.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.90*		*1.00*		*89.8*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.0*		*1.00*		*104*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.45*		*1.00*		*45.4*	*36 - 130*			
LCS Dup (B2A0395-BSD1)					Prepared: 1/16/2012 Analyzed: 1/16/2012				
1,4-Dioxane	0.91	0.20	1.00		91.1	70 - 130	0.288	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.69*		*1.00*		*69.3*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.92*		*1.00*		*91.9*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.0*		*1.00*		*105*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.43*		*1.00*		*43.2*	*36 - 130*			

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.03
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	01/25/2012

Notes and Definitions

S4	Surrogate was diluted out.
E	Result value above quantitation range.
D2	Sample required dilution due to high concentration of non-target analyte.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 1/13/12 PAGE 1 OF 1

PROJECT NAME: Raytheon Main	PROJECT No./TASK No.: 532.03
PROJECT MANAGER: Chris Ross	Phone No.: 858 455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Daniel Mora / Amanda Beam	SAMPLER (PRINTED): Daniel Mora / Amanda Beam

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	MATRIX: Ground-water	MATRIX: Surface water	MATRIX: CaBH4	PRESERVATION: HCl	PRESERVATION: HNO3	PRESERVATION: NaOH	PRESERVATION: H2SO4	PRESERVATION: Ice	SAMPLE CONTAINERS: 40mL VOA	SAMPLE CONTAINERS: 1 L Amber	ANALYSIS REQUESTED: 8260B VOCs	ANALYSIS REQUESTED: 8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0	0 - 10	10 - 100	100 - 1000	>1,000	SPECIAL HANDLING: STANDARD TAT	SPECIAL HANDLING: 24 HOUR TAT
1200145-01	TB-011312	1/13/12	800				X	X				X	2		X			X				X	
-02	MW-36		1207		X			X				X	3		X			X					X
	MW-36		1207		X							X		1		X		X					X
-03	MW-3600		1227		X			X				X	3		X			X				X	
	MW-3600		1227		X							X		1		X		X				X	
Total number of Containers per analysis:													8	2								Total No. of Containers:	10

LABORATORY INFORMATION: ATL; ATTN: RACHELLE ARADA

REMARKS:

Relinquished by:	Date	Time	Received by:	Date	Time
Company: H+A, INC	1/13/12	1645	Company:		
Relinquished by:	Date 1/13/12	Time 1645	Received by: FEDEX ATL	Date 1/13/12	Time 1645
Company:			Company:		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt _____ °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: DROP OFF

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

February 06, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200301

Client Reference : Raytheon Main, 532.18

Enclosed are the results for sample(s) received on January 26, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.18
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/06/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-36	1200301-01	Groundwater	1/26/12 11:13	1/26/12 12:45
MW-3600	1200301-02	Groundwater	1/26/12 11:33	1/26/12 12:45

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.18
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/06/2012

Client Sample ID MW-36

Lab ID: 1200301-01

Hexavalent Chromium by EPA 7199 **Analyst: Phali**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Hexavalent Chromium	ND	0.20	NA	1	B2A0693	01/26/2012	01/26/12 22:11	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.18
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/06/2012

Client Sample ID MW-3600

Lab ID: 1200301-02

Hexavalent Chromium by EPA 7199 **Analyst: Phali**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Hexavalent Chromium	ND	0.20	NA	1	B2A0693	01/26/2012	01/26/12 22:46	

QUALITY CONTROL SECTION

Hexavalent Chromium by EPA 7199 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0693 - No_Prep_IC_3									
Blank (B2A0693-BLK1)				Prepared: 1/26/2012 Analyzed: 1/26/2012					
Hexavalent Chromium	ND	0.20			NR				
LCS (B2A0693-BS1)				Prepared: 1/26/2012 Analyzed: 1/26/2012					
Hexavalent Chromium	5.0	0.20	5.00		101	90 - 110			
Matrix Spike (B2A0693-MS1)		**Source: 1200301-01**		Prepared: 1/26/2012 Analyzed: 1/26/2012					
Hexavalent Chromium	5.0	0.20	5.00	ND	100	90 - 110			
Matrix Spike Dup (B2A0693-MSD1)		**Source: 1200301-01**		Prepared: 1/26/2012 Analyzed: 1/26/2012					
Hexavalent Chromium	5.1	0.20	5.00	ND	102	90 - 110	2	10	

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.18
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/06/2012

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 1/26/12 PAGE 1 OF 1

PROJECT NAME: Raytheon Main	PROJECT No./TASK No.: 532.18
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE):	SAMPLER (PRINTED): Amanda Beam, DANIEL MORA

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	MATRIX: Ground-water	MATRIX: Surface water	PRESERVATION: HCl	PRESERVATION: HNO_3	PRESERVATION: NaOH	PRESERVATION: H_2SO_4	PRESERVATION: Ice	SAMPLE CONTAINERS: 8oz Poly, unpreserved	ANALYSIS REQUESTED: Cr6+-7199 (DL 0.2 ug/L)	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S	SPECIAL HANDLING: Filter in Lab	SPECIAL HANDLING: 24 HOUR HOLD	LABORATORY INFORMATION / REMARKS
1200301-01	MW-36	1/26/12	1113		X						X	1	X		X	X	
1-2	MW-3600	1/26/12	1133		X						X	1	X		X	X	

Total number of Containers per analysis:

Total No. of Containers: 2

Relinquished by:	Date	Time	Received by:	Date	Time
HTA (Company)	1/26/12	1245	HTL (Company)	1/26/12	1248
HTL (Company)	1/26/12	1317	(Company)	1/26/12	1317

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt: Temp. @ receipt 5.2 °C

- ☐ No. of containers correct
- ☐ custody seals secure
- ☒ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375, SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124, MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220, TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

February 16, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200423

Client Reference : Raytheon Main, 532.30

Enclosed are the results for sample(s) received on February 06, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/16/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-020612	1200423-01	Lab H2O	2/06/12 16:00	2/06/12 17:15
EW-01	1200423-02	Groundwater	2/06/12 16:10	2/06/12 17:15

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/16/2012

Client Sample ID TB-020612

Lab ID: 1200423-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
2-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
4-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Benzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Bromobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Bromodichloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Bromoform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Bromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Carbon tetrachloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Chlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Chloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Chloroform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Chloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/16/2012

Client Sample ID TB-020612

Lab ID: 1200423-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Dibromochloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Dibromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Ethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Isopropylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
m,p-Xylene	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Methylene chloride	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
n-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
n-Propylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Naphthalene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
o-Xylene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
sec-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Styrene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
tert-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Tetrachloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Toluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Trichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Vinyl chloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:27	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 20:27*	
Surrogate: 4-Bromofluorobenzene	*84.6 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 20:27*	
Surrogate: Dibromofluoromethane	*101 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 20:27*	
Surrogate: Toluene-d8	*97.7 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 20:27*	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/16/2012

Client Sample ID EW-01

Lab ID: 1200423-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,1-Dichloroethane	**0.85**	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,1-Dichloroethene	**59**	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
2-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
4-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Benzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Bromobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Bromodichloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Bromoform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Bromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Carbon tetrachloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Chlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Chloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Chloroform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Chloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/16/2012

Client Sample ID EW-01

Lab ID: 1200423-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Dibromochloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Dibromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Ethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Isopropylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
m,p-Xylene	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Methylene chloride	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
n-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
n-Propylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Naphthalene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
o-Xylene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
sec-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Styrene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
tert-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Tetrachloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Toluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Trichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Vinyl chloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:22	
Surrogate: 1,2-Dichloroethane-d4	*119 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:22*	
Surrogate: 4-Bromofluorobenzene	*90.2 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:22*	
Surrogate: Dibromofluoromethane	*116 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:22*	
Surrogate: Toluene-d8	*105 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:22*	

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Client Sample ID EW-01

Lab ID: 1200423-02

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**11**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 17:31	
Surrogate: 1,2-Dichlorobenzene-d4	*69.8 %*	*37 - 93*			B2B0271	02/10/2012	*02/10/12 17:31*	
Surrogate: 2-Fluorobiphenyl	*77.6 %*	*51 - 100*			B2B0271	02/10/2012	*02/10/12 17:31*	
Surrogate: 4-Terphenyl-d14	*97.1 %*	*58 - 113*			B2B0271	02/10/2012	*02/10/12 17:31*	
Surrogate: Nitrobenzene-d5	*86.7 %*	*39 - 95*			B2B0271	02/10/2012	*02/10/12 17:31*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL									
Blank (B2B0341-BLK1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL (continued)									
Blank (B2B0341-BLK1) - Continued				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.5*	*70 - 130*			
LCS (B2B0341-BS1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	17	0.50	20.0		83.6	70 - 130			
Benzene	37	0.50	40.0		92.8	70 - 130			
Chlorobenzene	20	0.50	20.0		100	70 - 130			
MTBE	19	0.50	20.0		95.0	70 - 130			
Toluene	38	0.50	40.0		95.4	70 - 130			
Trichloroethene	20	0.50	20.0		97.5	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.5*	*70 - 130*			
LCS (B2B0341-BS2)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	24	0.50	20.0		120	70 - 130			
Benzene	41	0.50	40.0		104	70 - 130			
Chlorobenzene	22	0.50	20.0		109	70 - 130			
MTBE	20	0.50	20.0		102	70 - 130			
Toluene	43	0.50	40.0		108	70 - 130			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL (continued)									
LCS (B2B0341-BS2) - Continued					Prepared: 2/14/2012 Analyzed: 2/14/2012				
Trichloroethene	22	0.50	20.0		109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS Dup (B2B0341-BSD1)					Prepared: 2/14/2012 Analyzed: 2/14/2012				
1,1-Dichloroethene	17	0.50	20.0		85.2	70 - 130	1.78	20	
Benzene	37	0.50	40.0		93.7	70 - 130	1.02	20	
Chlorobenzene	20	0.50	20.0		100	70 - 130	0.200	20	
MTBE	19	0.50	20.0		96.8	70 - 130	1.77	20	
Toluene	39	0.50	40.0		96.4	70 - 130	0.938	20	
Trichloroethene	20	0.50	20.0		98.6	70 - 130	1.07	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.6*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.3*	*70 - 130*			
LCS Dup (B2B0341-BSD2)					Prepared: 2/14/2012 Analyzed: 2/14/2012				
1,1-Dichloroethene	25	0.50	20.0		123	70 - 130	2.46	20	
Benzene	43	0.50	40.0		106	70 - 130	2.69	20	
Chlorobenzene	23	0.50	20.0		113	70 - 130	3.69	20	
MTBE	21	0.50	20.0		106	70 - 130	3.98	20	
Toluene	44	0.50	40.0		111	70 - 130	2.71	20	
Trichloroethene	22	0.50	20.0		112	70 - 130	2.99	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.6*	*70 - 130*			
Batch B2B0350 - MSVOAW_LL									
Blank (B2B0350-BLK1)					Prepared: 2/15/2012 Analyzed: 2/15/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0350 - MSVOAW_LL (continued)									
Blank (B2B0350-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0350 - MSVOAW_LL (continued)									
Blank (B2B0350-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.6*	*70 - 130*			
LCS (B2B0350-BS1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	16		20.0		79.4	70 - 130			
Benzene	37		40.0		93.6	70 - 130			
Chlorobenzene	20		20.0		102	70 - 130			
MTBE	21		20.0		104	70 - 130			
Toluene	38		40.0		96.0	70 - 130			
Trichloroethene	19		20.0		95.0	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*85.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.4*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS Dup (B2B0350-BSD1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	17		20.0		86.6	70 - 130	8.67	20	
Benzene	39		40.0		96.6	70 - 130	3.23	20	
Chlorobenzene	21		20.0		104	70 - 130	1.90	20	
MTBE	22		20.0		109	70 - 130	4.97	20	
Toluene	40		40.0		99.7	70 - 130	3.83	20	
Trichloroethene	20		20.0		100	70 - 130	5.38	20	
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.6*	*70 - 130*			
Matrix Spike (B2B0350-MS1)		**Source: 1200423-02**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	22		20.0	5.4	80.5	70 - 130			
Benzene	40		40.0	ND	101	70 - 130			
Chlorobenzene	21		20.0	ND	107	70 - 130			
MTBE	22		20.0	ND	110	70 - 130			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0350 - MSVOAW_LL (continued)									
Matrix Spike (B2B0350-MS1) - Continued		**Source: 1200423-02**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
Toluene	41		40.0	ND	104	70 - 130			
Trichloroethene	21		20.0	ND	106	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*91.0*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*18*		*25.0*		*71.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*21*		*25.0*		*84.1*	*70 - 130*			
Surrogate: Toluene-d8	*20*		*25.0*		*80.4*	*70 - 130*			
Matrix Spike Dup (B2B0350-MSD1)		**Source: 1200423-02**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	21		20.0	5.4	79.0	70 - 130	1.36	20	
Benzene	39		40.0	ND	98.7	70 - 130	2.13	20	
Chlorobenzene	21		20.0	ND	106	70 - 130	0.752	20	
MTBE	20		20.0	ND	102	70 - 130	7.34	20	
Toluene	41		40.0	ND	103	70 - 130	0.946	20	
Trichloroethene	21		20.0	ND	103	70 - 130	2.81	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.1*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*93.6*	*70 - 130*			
Batch B2B0380 - MSVOAW_LL									
Blank (B2B0380-BLK1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0380 - MSVOAW_LL (continued)									
Blank (B2B0380-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.6*	*70 - 130*			

Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon Main, 532.30
Report To : Steve Netto
Reported : 02/16/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0380 - MSVOAW_LL (continued)									
Blank (B2B0380-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
Surrogate: Toluene-d8	*24*		*25.0*		*95.2*	*70 - 130*			
LCS (B2B0380-BS1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	18		20.0		92.2	70 - 130			
Benzene	41		40.0		103	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	21		20.0		106	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	21		20.0		107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*21*		*25.0*		*85.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*18*		*25.0*		*70.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*20*		*25.0*		*81.9*	*70 - 130*			
Surrogate: Toluene-d8	*20*		*25.0*		*79.8*	*70 - 130*			
Matrix Spike (B2B0380-MS1)		**Source: 1200453-02RE1**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	70		20.0	54	84.1	70 - 130			
Benzene	46		40.0	ND	115	70 - 130			
Chlorobenzene	24		20.0	ND	121	70 - 130			
MTBE	23		20.0	ND	113	70 - 130			
Toluene	47		40.0	ND	118	70 - 130			
Trichloroethene	24		20.0	ND	122	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*93.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*19*		*25.0*		*74.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*87.2*	*70 - 130*			
Surrogate: Toluene-d8	*21*		*25.0*		*85.2*	*70 - 130*			
Matrix Spike Dup (B2B0380-MSD1)		**Source: 1200453-02RE1**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	66		20.0	54	60.4	70 - 130	6.97	20	M2
Benzene	41		40.0	ND	104	70 - 130	10.2	20	
Chlorobenzene	22		20.0	ND	112	70 - 130	7.42	20	
MTBE	21		20.0	ND	106	70 - 130	6.40	20	
Toluene	42		40.0	ND	106	70 - 130	11.0	20	
Trichloroethene	22		20.0	ND	108	70 - 130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	*19*		*25.0*		*76.6*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*15*		*25.0*		*61.1*	*70 - 130*			S6
Surrogate: Dibromofluoromethane	*18*		*25.0*		*71.2*	*70 - 130*			
Surrogate: Toluene-d8	*17*		*25.0*		*69.2*	*70 - 130*			S6

Hargis & Associates, Inc.	Project Number : Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/16/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI									
Blank (B2B0271-BLK1)					Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	ND	2.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*75*		*100*		*75.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*86*		*100*		*85.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*110*		*100*		*106*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.7*	*39 - 95*			
LCS (B2B0271-BS1)					Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	93	2.0	100		93.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*76*		*100*		*76.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*84*		*100*		*84.2*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*96*		*100*		*95.7*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.9*	*39 - 95*			
Matrix Spike (B2B0271-MS1)		**Source: 1200453-02**			Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	110	2.0	100	6.4	102	0 - 200			
Surrogate: 1,2-Dichlorobenzene-d4	*79*		*100*		*78.7*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*89*		*100*		*88.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*97*		*100*		*97.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*100*		*100*		*101*	*39 - 95*			S8
Matrix Spike Dup (B2B0271-MSD1)		**Source: 1200453-02**			Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	110	2.0	100	6.4	103	0 - 200	1.19	200	
Surrogate: 1,2-Dichlorobenzene-d4	*74*		*100*		*74.4*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*83*		*100*		*82.9*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*89*		*100*		*89.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*94*		*100*		*93.6*	*39 - 95*			

Hargis & Associates, Inc.		Project Number :	Raytheon Main, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/16/2012

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
S6	Surrogate recovery was below laboratory acceptance limit. See CAR for details.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/6/12 PAGE 1 OF 1

PROJECT NAME: Raytheon Main	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858 455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda LeBeau / Daniel Mora	SAMPLER (PRINTED): Amanda Beam / Daniel Mora

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	MATRIX: Ground-water	MATRIX: Surface water	MATRIX: Lab H2O	PRESERVATION: HCl	PRESERVATION: HNO3	PRESERVATION: NaOH	PRESERVATION: H2SO4	PRESERVATION: Ice	SAMPLE CONTAINERS: 40 ml VOAs	SAMPLE CONTAINERS: 1 L Amber	ANALYSIS REQUESTED: 8260B VOCs	ANALYSIS REQUESTED: 8270 MOD 1,4 dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1000	SPECIAL HANDLING: MS	MSD	REMARKS
1200423-01	TB-020612	2/6/12	1600				X	X				X	2		X								
1-02	EW-01	↓	1610		X			X				X	3		X				X		X	X	6 VOAs
	EW-01	↓	1610		X							X		1		X					X	X	2-1 L Amber
Total number of Containers per analysis:													5	1							Total No. of Containers:	6+8 (14)	

Relinquished by:	Date	Time	Received by:	Date	Time
DAL / HHA	2/6/12	1715	ATL	2/6/12	1715
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
ATL	2/6/12	1750	ATL	2/6/12	1750
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt _____ °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

February 21, 2012

ACCREDITED IN ACCORDANCE WITH nelac

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200446

Client Reference : RAYTHEON MAIN, 532.30

Enclosed are the results for sample(s) received on February 07, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-020712	1200446-01	Lab H2O	2/07/12 10:00	2/07/12 18:55
MW-32A	1200446-02	Groundwater	2/07/12 10:39	2/07/12 18:55
MW-32C	1200446-03	Groundwater	2/07/12 14:47	2/07/12 18:55
MW-3200B	1200446-04	Groundwater	2/07/12 15:00	2/07/12 18:55
MW-32B	1200446-05	Groundwater	2/07/12 16:38	2/07/12 18:55
RB-020712	1200446-06	Lab H2O	2/07/12 10:40	2/07/12 18:55
MW-18	1200446-07	Groundwater	2/07/12 12:14	2/07/12 18:55
MW-16	1200446-08	Groundwater	2/07/12 17:06	2/07/12 18:55
MW-20	1200446-09	Groundwater	2/07/12 15:05	2/07/12 18:55

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020712

Lab ID: 1200446-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
2-Chlorotoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
4-Chlorotoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Benzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Bromobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Bromodichloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Bromoform	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Bromomethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Carbon tetrachloride	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Chlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Chloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Chloroform	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Chloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020712

Lab ID: 1200446-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Dibromochloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Dibromomethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Ethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Isopropylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
m,p-Xylene	ND	1.0	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Methylene chloride	ND	1.0	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
n-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
n-Propylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Naphthalene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
o-Xylene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
sec-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Styrene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
tert-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Tetrachloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Toluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Trichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Vinyl chloride	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 12:49	
Surrogate: 1,2-Dichloroethane-d4	*119 %*		*70 - 130*		B2B0385	02/16/2012	*02/16/12 12:49*	
Surrogate: 4-Bromofluorobenzene	*94.2 %*		*70 - 130*		B2B0385	02/16/2012	*02/16/12 12:49*	
Surrogate: Dibromofluoromethane	*114 %*		*70 - 130*		B2B0385	02/16/2012	*02/16/12 12:49*	
Surrogate: Toluene-d8	*106 %*		*70 - 130*		B2B0385	02/16/2012	*02/16/12 12:49*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-32A

Lab ID: 1200446-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
2-Chlorotoluene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
4-Chlorotoluene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Benzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Bromobenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Bromodichloromethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Bromoform	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Bromomethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Carbon tetrachloride	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Chlorobenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Chloroethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Chloroform	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Chloromethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID MW-32A

Lab ID: 1200446-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Dibromochloromethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Dibromomethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Ethylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Isopropylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
m,p-Xylene	ND	1.0	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Methylene chloride	ND	1.0	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
n-Butylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
n-Propylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Naphthalene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
o-Xylene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
sec-Butylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Styrene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
tert-Butylbenzene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Tetrachloroethene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Toluene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Trichloroethene	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Vinyl chloride	ND	0.50	NA	1	B2B0277	02/13/2012	02/13/12 13:35	
Surrogate: 1,2-Dichloroethane-d4	*92.6 %*		*70 - 130*		B2B0277	02/13/2012	*02/13/12 13:35*	
Surrogate: 4-Bromofluorobenzene	*81.9 %*		*70 - 130*		B2B0277	02/13/2012	*02/13/12 13:35*	
Surrogate: Dibromofluoromethane	*96.7 %*		*70 - 130*		B2B0277	02/13/2012	*02/13/12 13:35*	
Surrogate: Toluene-d8	*97.0 %*		*70 - 130*		B2B0277	02/13/2012	*02/13/12 13:35*	

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Lab ID: 1200446-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 16:23	
Surrogate: 1,2-Dichlorobenzene-d4	*90.9 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 16:23*	
Surrogate: 2-Fluorobiphenyl	*95.1 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 16:23*	
Surrogate: 4-Terphenyl-d14	*115 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 16:23*	
Surrogate: Nitrobenzene-d5	*88.3 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 16:23*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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Lab ID: 1200446-03

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
2-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
4-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Benzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Bromobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Bromodichloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Bromoform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Bromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Carbon tetrachloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Chlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Chloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Chloroform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Chloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	

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Client Sample ID MW-32C

Lab ID: 1200446-03

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Dibromochloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Dibromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Ethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Isopropylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
m,p-Xylene	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Methylene chloride	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
n-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
n-Propylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Naphthalene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
o-Xylene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
sec-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Styrene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
tert-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Tetrachloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Toluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Trichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Vinyl chloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 20:48	
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 20:48*	
Surrogate: 4-Bromofluorobenzene	*82.6 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 20:48*	
Surrogate: Dibromofluoromethane	*101 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 20:48*	
Surrogate: Toluene-d8	*96.7 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 20:48*	

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Lab ID: 1200446-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 18:18	
Surrogate: 1,2-Dichlorobenzene-d4	*83.0 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 18:18*	
Surrogate: 2-Fluorobiphenyl	*87.1 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 18:18*	
Surrogate: 4-Terphenyl-d14	*102 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 18:18*	
Surrogate: Nitrobenzene-d5	*77.6 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 18:18*	

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Client Sample ID MW-3200B

Lab ID: 1200446-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,1-Dichloroethane	**0.61**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,1-Dichloroethene	**74**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
2-Chlorotoluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
4-Chlorotoluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Benzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Bromobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Bromodichloromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Bromoform	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Bromomethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Carbon tetrachloride	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Chlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Chloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Chloroform	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Chloromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	

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Client Sample ID MW-3200B

Lab ID: 1200446-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**4.0**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Dibromochloromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Dibromomethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Ethylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Isopropylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
m,p-Xylene	ND	1.0	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Methylene chloride	ND	1.0	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
n-Butylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
n-Propylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Naphthalene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
o-Xylene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
sec-Butylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Styrene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
tert-Butylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Tetrachloroethene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Toluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Trichloroethene	**46**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Vinyl chloride	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:06	
Surrogate: 1,2-Dichloroethane-d4	*97.6 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:06*	
Surrogate: 4-Bromofluorobenzene	*70.9 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:06*	
Surrogate: Dibromofluoromethane	*92.8 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:06*	
Surrogate: Toluene-d8	*85.5 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:06*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-3200B

Lab ID: 1200446-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**1.6**	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 18:48	
Surrogate: 1,2-Dichlorobenzene-d4	*83.5 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 18:48*	
Surrogate: 2-Fluorobiphenyl	*92.4 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 18:48*	
Surrogate: 4-Terphenyl-d14	*114 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 18:48*	
Surrogate: Nitrobenzene-d5	*85.6 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 18:48*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-32B

Lab ID: 1200446-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,1-Dichloroethane	**0.59**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,1-Dichloroethene	**73**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
2-Chlorotoluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
4-Chlorotoluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Benzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Bromobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Bromodichloromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Bromoform	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Bromomethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Carbon tetrachloride	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Chlorobenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Chloroethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Chloroform	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Chloromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	

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Client Sample ID MW-32B

Lab ID: 1200446-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**4.0**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Dibromochloromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Dibromomethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Ethylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Isopropylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
m,p-Xylene	ND	1.0	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Methylene chloride	ND	1.0	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
n-Butylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
n-Propylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Naphthalene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
o-Xylene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
sec-Butylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Styrene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
tert-Butylbenzene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Tetrachloroethene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Toluene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Trichloroethene	**44**	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Vinyl chloride	ND	0.50	NA	1	B2B0421	02/17/2012	02/17/12 14:26	
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:26*	
Surrogate: 4-Bromofluorobenzene	*74.0 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:26*	
Surrogate: Dibromofluoromethane	*102 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:26*	
Surrogate: Toluene-d8	*92.0 %*		*70 - 130*		B2B0421	02/17/2012	*02/17/12 14:26*	

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Lab ID: 1200446-05

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**1.5**	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 19:17	
Surrogate: 1,2-Dichlorobenzene-d4	*82.1 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 19:17*	
Surrogate: 2-Fluorobiphenyl	*90.2 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 19:17*	
Surrogate: 4-Terphenyl-d14	*112 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 19:17*	
Surrogate: Nitrobenzene-d5	*81.3 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 19:17*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID RB-020712

Lab ID: 1200446-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
2-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
4-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Benzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Bromobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Bromodichloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Bromoform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Bromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Carbon tetrachloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Chlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Chloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Chloroform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Chloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID RB-020712

Lab ID: 1200446-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Dibromochloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Dibromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Ethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Isopropylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
m,p-Xylene	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Methylene chloride	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
n-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
n-Propylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Naphthalene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
o-Xylene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
sec-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Styrene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
tert-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Tetrachloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Toluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Trichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Vinyl chloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:08	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:08*	
Surrogate: 4-Bromofluorobenzene	*82.5 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:08*	
Surrogate: Dibromofluoromethane	*102 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:08*	
Surrogate: Toluene-d8	*97.1 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:08*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID RB-020712

Lab ID: 1200446-06

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 17:50	
Surrogate: 1,2-Dichlorobenzene-d4	*76.9 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 17:50*	
Surrogate: 2-Fluorobiphenyl	*83.1 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 17:50*	
Surrogate: 4-Terphenyl-d14	*112 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 17:50*	
Surrogate: Nitrobenzene-d5	*75.3 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 17:50*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-18

Lab ID: 1200446-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
2-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
4-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Benzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Bromobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Bromodichloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Bromoform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Bromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Carbon tetrachloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Chlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Chloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Chloroform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Chloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-18

Lab ID: 1200446-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Dibromochloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Dibromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Ethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Isopropylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
m,p-Xylene	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Methylene chloride	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
n-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
n-Propylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Naphthalene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
o-Xylene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
sec-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Styrene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
tert-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Tetrachloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Toluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Trichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Trichlorofluoromethane	**2.2**	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Vinyl chloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:28	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:28*	
Surrogate: 4-Bromofluorobenzene	*83.7 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:28*	
Surrogate: Dibromofluoromethane	*101 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:28*	
Surrogate: Toluene-d8	*95.5 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:28*	

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Lab ID: 1200446-07

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 19:46	
Surrogate: 1,2-Dichlorobenzene-d4	*83.2 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 19:46*	
Surrogate: 2-Fluorobiphenyl	*86.2 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 19:46*	
Surrogate: 4-Terphenyl-d14	*115 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 19:46*	
Surrogate: Nitrobenzene-d5	*82.9 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 19:46*	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-16

Lab ID: 1200446-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,1,1-Trichloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,1,2,2-Tetrachloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,1,2-Trichloroethane	**1.3**	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,1-Dichloroethane	**2.3**	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,1-Dichloroethene	**95**	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,1-Dichloropropene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2,3-Trichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2,3-Trichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2,4-Trichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2,4-Trimethylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2-Dibromo-3-chloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2-Dibromoethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2-Dichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2-Dichloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,2-Dichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,3,5-Trimethylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,3-Dichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,3-Dichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
1,4-Dichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
2,2-Dichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
2-Chlorotoluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
4-Chlorotoluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
4-Isopropyltoluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Benzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Bromobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Bromodichloromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Bromoform	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Bromomethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Carbon tetrachloride	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Chlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Chloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Chloroform	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Chloromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	

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Lab ID: 1200446-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
cis-1,3-Dichloropropene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Dibromochloromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Dibromomethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Dichlorodifluoromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Ethylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Hexachlorobutadiene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Isopropylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
m,p-Xylene	ND	2.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Methylene chloride	ND	2.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
n-Butylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
n-Propylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Naphthalene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
o-Xylene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
sec-Butylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Styrene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
tert-Butylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Tetrachloroethene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Toluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
trans-1,2-Dichloroethene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Trichloroethene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Trichlorofluoromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Vinyl chloride	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 04:33	
Surrogate: 1,2-Dichloroethane-d4	*125 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:33*	
Surrogate: 4-Bromofluorobenzene	*92.0 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:33*	
Surrogate: Dibromofluoromethane	*120 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:33*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:33*	

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Lab ID: 1200446-08

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**44**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 18:00	
Surrogate: 1,2-Dichlorobenzene-d4	*64.5 %*	*37 - 93*			B2B0271	02/10/2012	*02/10/12 18:00*	
Surrogate: 2-Fluorobiphenyl	*81.6 %*	*51 - 100*			B2B0271	02/10/2012	*02/10/12 18:00*	
Surrogate: 4-Terphenyl-d14	*104 %*	*58 - 113*			B2B0271	02/10/2012	*02/10/12 18:00*	
Surrogate: Nitrobenzene-d5	*82.4 %*	*39 - 95*			B2B0271	02/10/2012	*02/10/12 18:00*	

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San Diego , CA 92122	Reported : 02/21/2012

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Lab ID: 1200446-09

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,1-Dichloroethene	**2.8**	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
2-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
4-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Benzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Bromobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Bromodichloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Bromoform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Bromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Carbon tetrachloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Chlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Chloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Chloroform	**0.50**	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Chloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	

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Client Sample ID MW-20

Lab ID: 1200446-09

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Dibromochloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Dibromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Ethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Isopropylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
m,p-Xylene	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Methylene chloride	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
n-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
n-Propylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Naphthalene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
o-Xylene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
sec-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Styrene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
tert-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Tetrachloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Toluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Trichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Vinyl chloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 21:49	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:49*	
Surrogate: 4-Bromofluorobenzene	*82.1 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:49*	
Surrogate: Dibromofluoromethane	*100 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:49*	
Surrogate: Toluene-d8	*96.5 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 21:49*	

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Client Sample ID MW-20

Lab ID: 1200446-09

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 20:15	
Surrogate: 1,2-Dichlorobenzene-d4	*80.0 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 20:15*	
Surrogate: 2-Fluorobiphenyl	*84.6 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 20:15*	
Surrogate: 4-Terphenyl-d14	*112 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 20:15*	
Surrogate: Nitrobenzene-d5	*78.8 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 20:15*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0277 - MSVOAW_LL									
Blank (B2B0277-BLK1)				Prepared: 2/13/2012 Analyzed: 2/13/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0277 - MSVOAW_LL (continued)									
Blank (B2B0277-BLK1) - Continued				Prepared: 2/13/2012 Analyzed: 2/13/2012					
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*93.7*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.3*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS (B2B0277-BS1)				Prepared: 2/13/2012 Analyzed: 2/13/2012					
1,1-Dichloroethene	17	0.50	20.0		86.0	70 - 130			
Benzene	38	0.50	40.0		96.2	70 - 130			
Chlorobenzene	21	0.50	20.0		103	70 - 130			
MTBE	20	0.50	20.0		99.9	70 - 130			
Toluene	40	0.50	40.0		100	70 - 130			
Trichloroethene	25	0.50	20.0		124	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.9*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*100*	*70 - 130*			
LCS Dup (B2B0277-BSD1)				Prepared: 2/13/2012 Analyzed: 2/13/2012					
1,1-Dichloroethene	16	0.50	20.0		82.2	70 - 130	4.46	20	
Benzene	38	0.50	40.0		94.7	70 - 130	1.55	20	
Chlorobenzene	20	0.50	20.0		102	70 - 130	0.635	20	
MTBE	20	0.50	20.0		100	70 - 130	0.350	20	
Toluene	39	0.50	40.0		98.6	70 - 130	1.73	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0277 - MSVOAW_LL (continued)									
LCS Dup (B2B0277-BSD1) - Continued					Prepared: 2/13/2012 Analyzed: 2/13/2012				
Trichloroethene	24	0.50	20.0		119	70 - 130	3.92	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.0*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*98.0*	*70 - 130*			
Matrix Spike (B2B0277-MS1)		**Source: 1200446-02**			Prepared: 2/13/2012 Analyzed: 2/13/2012				
1,1-Dichloroethene	19	0.50	20.0	ND	95.5	70 - 130			
Benzene	41	0.50	40.0	ND	103	70 - 130			
Chlorobenzene	22	0.50	20.0	ND	110	70 - 130			
MTBE	21	0.50	20.0	ND	104	70 - 130			
Toluene	43	0.50	40.0	ND	108	70 - 130			
Trichloroethene	21	0.50	20.0	ND	107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*98.5*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.7*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.0*	*70 - 130*			
Matrix Spike Dup (B2B0277-MSD1)		**Source: 1200446-02**			Prepared: 2/13/2012 Analyzed: 2/13/2012				
1,1-Dichloroethene	19	0.50	20.0	ND	95.0	70 - 130	0.472	20	
Benzene	41	0.50	40.0	ND	103	70 - 130	0.631	20	
Chlorobenzene	22	0.50	20.0	ND	109	70 - 130	0.547	20	
MTBE	21	0.50	20.0	ND	104	70 - 130	0.193	20	
Toluene	43	0.50	40.0	ND	107	70 - 130	1.00	20	
Trichloroethene	21	0.50	20.0	ND	106	70 - 130	1.60	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*98.0*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.8*	*70 - 130*			
Batch B2B0341 - MSVOAW_LL									
Blank (B2B0341-BLK1)					Prepared: 2/14/2012 Analyzed: 2/14/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL (continued)									
Blank (B2B0341-BLK1) - Continued				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL (continued)									
Blank (B2B0341-BLK1) - Continued				Prepared: 2/14/2012 Analyzed: 2/14/2012					
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.5*	*70 - 130*			
LCS (B2B0341-BS1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	17	0.50	20.0		83.6	70 - 130			
Benzene	37	0.50	40.0		92.8	70 - 130			
Chlorobenzene	20	0.50	20.0		100	70 - 130			
MTBE	19	0.50	20.0		95.0	70 - 130			
Toluene	38	0.50	40.0		95.4	70 - 130			
Trichloroethene	20	0.50	20.0		97.5	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.5*	*70 - 130*			
LCS (B2B0341-BS2)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	24	0.50	20.0		120	70 - 130			
Benzene	41	0.50	40.0		104	70 - 130			
Chlorobenzene	22	0.50	20.0		109	70 - 130			
MTBE	20	0.50	20.0		102	70 - 130			
Toluene	43	0.50	40.0		108	70 - 130			
Trichloroethene	22	0.50	20.0		109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS Dup (B2B0341-BSD1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	17	0.50	20.0		85.2	70 - 130	1.78	20	
Benzene	37	0.50	40.0		93.7	70 - 130	1.02	20	
Chlorobenzene	20	0.50	20.0		100	70 - 130	0.200	20	
MTBE	19	0.50	20.0		96.8	70 - 130	1.77	20	

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL (continued)									
LCS Dup (B2B0341-BSD1) - Continued				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Toluene	39	0.50	40.0		96.4	70 - 130	0.938	20	
Trichloroethene	20	0.50	20.0		98.6	70 - 130	1.07	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.6*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.3*	*70 - 130*			
LCS Dup (B2B0341-BSD2)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	25	0.50	20.0		123	70 - 130	2.46	20	
Benzene	43	0.50	40.0		106	70 - 130	2.69	20	
Chlorobenzene	23	0.50	20.0		113	70 - 130	3.69	20	
MTBE	21	0.50	20.0		106	70 - 130	3.98	20	
Toluene	44	0.50	40.0		111	70 - 130	2.71	20	
Trichloroethene	22	0.50	20.0		112	70 - 130	2.99	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.6*	*70 - 130*			
Batch B2B0380 - MSVOAW_LL									
Blank (B2B0380-BLK1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0380 - MSVOAW_LL (continued)									
Blank (B2B0380-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.6*	*70 - 130*			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0380 - MSVOAW_LL (continued)									
Blank (B2B0380-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
Surrogate: Toluene-d8	*24*		*25.0*		*95.2*	*70 - 130*			
LCS (B2B0380-BS1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	18		20.0		92.2	70 - 130			
Benzene	41		40.0		103	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	21		20.0		106	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	21		20.0		107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*21*		*25.0*		*85.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*18*		*25.0*		*70.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*20*		*25.0*		*81.9*	*70 - 130*			
Surrogate: Toluene-d8	*20*		*25.0*		*79.8*	*70 - 130*			
Matrix Spike (B2B0380-MS1)		**Source: 1200453-02RE1**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	70		20.0	54	84.1	70 - 130			
Benzene	46		40.0	ND	115	70 - 130			
Chlorobenzene	24		20.0	ND	121	70 - 130			
MTBE	23		20.0	ND	113	70 - 130			
Toluene	47		40.0	ND	118	70 - 130			
Trichloroethene	24		20.0	ND	122	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*93.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*19*		*25.0*		*74.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*87.2*	*70 - 130*			
Surrogate: Toluene-d8	*21*		*25.0*		*85.2*	*70 - 130*			
Matrix Spike Dup (B2B0380-MSD1)		**Source: 1200453-02RE1**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	66		20.0	54	60.4	70 - 130	6.97	20	M2
Benzene	41		40.0	ND	104	70 - 130	10.2	20	
Chlorobenzene	22		20.0	ND	112	70 - 130	7.42	20	
MTBE	21		20.0	ND	106	70 - 130	6.40	20	
Toluene	42		40.0	ND	106	70 - 130	11.0	20	
Trichloroethene	22		20.0	ND	108	70 - 130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	*19*		*25.0*		*76.6*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*15*		*25.0*		*61.1*	*70 - 130*			S6
Surrogate: Dibromofluoromethane	*18*		*25.0*		*71.2*	*70 - 130*			
Surrogate: Toluene-d8	*17*		*25.0*		*69.2*	*70 - 130*			S6
Batch B2B0385 - MSVOAW_LL									
Blank (B2B0385-BLK1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
Blank (B2B0385-BLK1) - Continued				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
Blank (B2B0385-BLK1) - Continued				Prepared: 2/16/2012 Analyzed: 2/16/2012					
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*90.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*111*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
LCS (B2B0385-BS1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	19		20.0		94.2	70 - 130			
Benzene	42		40.0		105	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	23		20.0		115	70 - 130			
Toluene	43		40.0		107	70 - 130			
Trichloroethene	22		20.0		108	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
LCS Dup (B2B0385-BSD1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	19		20.0		94.4	70 - 130	0.265	20	
Benzene	42		40.0		104	70 - 130	0.334	20	
Chlorobenzene	22		20.0		111	70 - 130	0.582	20	
MTBE	22		20.0		111	70 - 130	3.41	20	
Toluene	43		40.0		107	70 - 130	0.420	20	
Trichloroethene	21		20.0		107	70 - 130	0.745	20	
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.7*	*70 - 130*			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
LCS Dup (B2B0385-BSD1) - Continued				Prepared: 2/16/2012 Analyzed: 2/16/2012					
Surrogate: Dibromofluoromethane	*27*		*25.0*		*110*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Matrix Spike (B2B0385-MS1)		**Source: 1200466-04**		Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	22		20.0	ND	109	70 - 130			
Benzene	45		40.0	ND	114	70 - 130			
Chlorobenzene	24		20.0	ND	120	70 - 130			
MTBE	24		20.0	ND	118	70 - 130			
Toluene	47		40.0	ND	118	70 - 130			
Trichloroethene	24		20.0	ND	120	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*110*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Matrix Spike Dup (B2B0385-MSD1)		**Source: 1200466-04**		Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	20		20.0	ND	98.7	70 - 130	10.2	20	
Benzene	41		40.0	ND	103	70 - 130	9.68	20	
Chlorobenzene	22		20.0	ND	111	70 - 130	7.83	20	
MTBE	22		20.0	ND	109	70 - 130	8.26	20	
Toluene	42		40.0	ND	106	70 - 130	11.0	20	
Trichloroethene	21		20.0	ND	107	70 - 130	11.3	20	
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Batch B2B0421 - MSVOAW_LL									
Blank (B2B0421-BLK1)				Prepared: 2/17/2012 Analyzed: 2/17/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0421 - MSVOAW_LL (continued)									
Blank (B2B0421-BLK1) - Continued				Prepared: 2/17/2012 Analyzed: 2/17/2012					
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0421 - MSVOAW_LL (continued)									
Blank (B2B0421-BLK1) - Continued				Prepared: 2/17/2012 Analyzed: 2/17/2012					
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*98.1*	*70 - 130*			
LCS (B2B0421-BS1)				Prepared: 2/17/2012 Analyzed: 2/17/2012					
1,1-Dichloroethene	20		20.0		97.5	70 - 130			
Benzene	42		40.0		105	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	22		20.0		108	70 - 130			
Toluene	43		40.0		108	70 - 130			
Trichloroethene	22		20.0		109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.0*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*19*		*25.0*		*74.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23*		*25.0*		*92.0*	*70 - 130*			
Surrogate: Toluene-d8	*22*		*25.0*		*87.8*	*70 - 130*			
LCS (B2B0421-BS2)				Prepared: 2/17/2012 Analyzed: 2/17/2012					
1,1-Dichloroethene	19		20.0		94.2	70 - 130			
Benzene	41		40.0		103	70 - 130			
Chlorobenzene	23		20.0		113	70 - 130			
MTBE	22		20.0		108	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	22		20.0		109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*111*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*101*	*70 - 130*			
LCS Dup (B2B0421-BSD1)				Prepared: 2/17/2012 Analyzed: 2/17/2012					
1,1-Dichloroethene	19		20.0		96.8	70 - 130	0.772	20	
Benzene	42		40.0		106	70 - 130	0.999	20	
Chlorobenzene	23		20.0		114	70 - 130	1.54	20	
MTBE	22		20.0		112	70 - 130	4.50	20	
Toluene	44		40.0		109	70 - 130	1.25	20	
Trichloroethene	22		20.0		111	70 - 130	2.32	20	
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*115*	*70 - 130*			

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0421 - MSVOAW_LL (continued)									
LCS Dup (B2B0421-BSD1) - Continued				Prepared: 2/17/2012 Analyzed: 2/17/2012					
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*87.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*107*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*103*	*70 - 130*			
LCS Dup (B2B0421-BSD2)				Prepared: 2/17/2012 Analyzed: 2/17/2012					
1,1-Dichloroethene	19		20.0		96.3	70 - 130	2.26		
Benzene	41		40.0		103	70 - 130	0.0242		
Chlorobenzene	22		20.0		112	70 - 130	0.622		
MTBE	22		20.0		108	70 - 130	0.462		
Toluene	43		40.0		107	70 - 130	0.822		
Trichloroethene	22		20.0		108	70 - 130	0.460		
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*79.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.7*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.4*	*70 - 130*			
Batch B2B0500 - MSVOAW_LL									
Blank (B2B0500-BLK1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
Blank (B2B0500-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS (B2B0500-BS1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS (B2B0500-BS1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		95.2	70 - 130			
Benzene	40		40.0		99.8	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	20		20.0		101	70 - 130			
Toluene	41		40.0		102	70 - 130			
Trichloroethene	21		20.0		105	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*86.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS (B2B0500-BS2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		91.1	70 - 130			
Benzene	40		40.0		101	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	21		20.0		107	70 - 130			
Toluene	42		40.0		104	70 - 130			
Trichloroethene	21		20.0		107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS Dup (B2B0500-BSD1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		93.2	70 - 130	2.12	20	
Benzene	40		40.0		101	70 - 130	1.39	20	
Chlorobenzene	22		20.0		110	70 - 130	0.319	20	
MTBE	21		20.0		104	70 - 130	3.51	20	
Toluene	42		40.0		105	70 - 130	2.56	20	
Trichloroethene	22		20.0		108	70 - 130	2.67	20	
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS Dup (B2B0500-BSD2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		90.2	70 - 130	0.993		
Benzene	41		40.0		102	70 - 130	1.35		
Chlorobenzene	22		20.0		111	70 - 130	1.49		
MTBE	22		20.0		110	70 - 130	2.53		
Toluene	42		40.0		105	70 - 130	1.17		
Trichloroethene	22		20.0		108	70 - 130	0.836		
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL									
Blank (B2B0506-BLK1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
Blank (B2B0506-BLK1) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
Blank (B2B0506-BLK2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	5.0			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				
Dichlorodifluoromethane	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
Blank (B2B0506-BLK2) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	10			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
LCS (B2B0506-BS1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		97.2	70 - 130			
Benzene	42		40.0		104	70 - 130			
Chlorobenzene	22		20.0		109	70 - 130			
MTBE	22		20.0		112	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	24		20.0		118	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*32*		*25.0*		*127*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*112*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
LCS (B2B0506-BS2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	20		20.0		98.0	70 - 130			
Benzene	42		40.0		105	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	22		20.0		111	70 - 130			
Toluene	43		40.0		108	70 - 130			
Trichloroethene	24		20.0		119	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*113*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*112*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
LCS Dup (B2B0506-BSD1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		94.0	70 - 130	3.24	20	
Benzene	41		40.0		102	70 - 130	1.38	20	
Chlorobenzene	22		20.0		110	70 - 130	0.594	20	
MTBE	22		20.0		112	70 - 130	0.268	20	
Toluene	42		40.0		105	70 - 130	0.900	20	
Trichloroethene	23		20.0		116	70 - 130	1.54	20	
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*122*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*114*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
LCS Dup (B2B0506-BSD2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		92.6	70 - 130	5.61		
Benzene	41		40.0		102	70 - 130	2.88		
Chlorobenzene	22		20.0		110	70 - 130	1.44		
MTBE	22		20.0		111	70 - 130	0.450		
Toluene	42		40.0		105	70 - 130	2.39		
Trichloroethene	23		20.0		116	70 - 130	2.63		
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*110*	*70 - 130*			

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1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI									
Blank (B2B0271-BLK1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	ND	2.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*75*		*100*		*75.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*86*		*100*		*85.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*110*		*100*		*106*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.7*	*39 - 95*			

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1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
LCS (B2B0271-BS1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	93	2.0	100		93.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*76*		*100*		*76.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*84*		*100*		*84.2*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*96*		*100*		*95.7*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.9*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
Matrix Spike (B2B0271-MS1)		**Source: 1200453-02**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	110	2.0	100	6.4	102	0 - 200			
Surrogate: 1,2-Dichlorobenzene-d4	*79*		*100*		*78.7*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*89*		*100*		*88.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*97*		*100*		*97.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*100*		*100*		*101*	*39 - 95*			S8

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
Matrix Spike Dup (B2B0271-MSD1)		**Source: 1200453-02**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	110	2.0	100	6.4	103	0 - 200	1.19	200	
Surrogate: 1,2-Dichlorobenzene-d4	*74*		*100*		*74.4*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*83*		*100*		*82.9*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*89*		*100*		*89.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*94*		*100*		*93.6*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN									
Blank (B2B0237-BLK1)				Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.84*		*1.00*		*84.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.87*		*1.00*		*87.3*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*114*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.86*		*1.00*		*85.6*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B2B0237-BS1)				Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.83	0.20	1.00		83.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.89*		*1.00*		*88.7*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.94*		*1.00*		*93.5*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*112*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.96*		*1.00*		*96.3*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
Matrix Spike (B2B0237-MS1)		**Source: 1200446-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.80	0.20	1.00	ND	80.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.88*		*1.00*		*88.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.92*		*1.00*		*92.4*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*108*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.92*		*1.00*		*92.1*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
Matrix Spike Dup (B2B0237-MSD1)		**Source: 1200446-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.87	0.20	1.00	ND	86.6	70 - 130	7.56	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.91*		*1.00*		*90.9*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.99*		*1.00*		*98.7*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*112*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.96*		*1.00*		*95.5*	*36 - 130*			

Hargis & Associates, Inc.		Project Number :	RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2012

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
S6	Surrogate recovery was below laboratory acceptance limit. See CAR for details.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/7/12 PAGE 1 OF 2

PROJECT NAME	RAYTHEON MAIN	PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross	Phone No.	858-455-6500
QA MANAGER	Steve Netto	Fax No.	858-455-6533
SAMPLER (SIGNATURE)		SAMPLER (PRINTED)	Erin Hunter Elizabeth Bigsby

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H2O	PRESERVATION HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS 40 ml VOA	1 L Amber	ANALYSIS REQUESTED 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0 - 10	10 - 100	100 - 1,000	> 1,000	SPECIAL HANDLING Standard TAT	MS/MSD	REMARKS
1200446-01	TB-020712	2/7/12	1000				X	X				X	2		X			X				X		
2	MW-32A	↓	1039		X			X				X	3		X			X					X	6 VOAs
	↓		↓		X							X		1		X							X	3 x 1 Ambers x 2
3	MW-32C		1447		X			X				X	3		X			X						AMB
	↓		↓		X							X		1		X								
4	MW-3200B		1500		X			X				X	3		X					X				
	↓		↓		X							X		1		X								
5	MW-32B		1638		X			X				X	3		X					X				
	↓	↓	↓		X							X		1		X								

Total number of Containers per analysis: 14 | 12

Total No. of Containers: 26

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	2/7/12	1658	HHA		2/7/12	1658	ATL
Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	2/7/12	1855	ATL		2/7/12	1855	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt _____ °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop Off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ATL
Attn: Rachelle Arada

REMARKS

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/7/12 PAGE 2 OF 2

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Bam / DANIEL MORA	SAMPLER (PRINTED): Amanda Bam / DANIEL MORA

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0 - 10	10 - 100	100 - 1,000	> 1,000	SPECIAL HANDLING: Standard TAT	LABORATORY INFORMATION / REMARKS
1200446-6	RB-020712	2/7/12	1040				X	X				X	3		X			X				X	ATL
	↓		↓				X					X		1		X						X	Attn: Rachelle Arada
7	MW-18		1214		X			X				X	3		X			X				X	
	↓		↓		X							X		1		X						X	
8	MW-16		1706		X			X					3		X						X	X	
	↓		↓		X									1	*2 X	X						X	
9	MW-20		1505		X			X					3		X			X				X	
	↓		↓		X									1		X						X	
Total number of Containers per analysis:													12	4								Total No. of Containers: 16	

Relinquished by:	Date	Time	Received by:	Date	Time
HTA, INC (Company)	2/7/12	1725	ATL (Company)	2/7/12	1725
ATL (Company)	2/7/12	1855	ATL (Company)	2/7/12	1855

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt _____ °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop Off

Send Results to: Steve Netto

- [X] 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- [ ] 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- [ ] 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

February 21, 2012

ACCREDITED IN ACCORDANCE WITH nelac

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200466

Client Reference : RAYTHEON MAIN, 532.30

Enclosed are the results for sample(s) received on February 08, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-020812	1200466-01	Lab H2O	2/08/12 7:00	2/08/12 17:07
RB-020812	1200466-02	Lab H2O	2/08/12 8:50	2/08/12 17:07
MW-13	1200466-03	Groundwater	2/08/12 10:03	2/08/12 17:07
MW-34C	1200466-04	Groundwater	2/08/12 11:12	2/08/12 17:07
MW-34A	1200466-05	Groundwater	2/08/12 11:58	2/08/12 17:07
MW-34B	1200466-06	Groundwater	2/08/12 14:36	2/08/12 17:07
MW-3400B	1200466-07	Groundwater	2/08/12 14:56	2/08/12 17:07
MW-09	1200466-08	Groundwater	2/08/12 16:32	2/08/12 17:07
MW-35A	1200466-09	Groundwater	2/08/12 8:42	2/08/12 17:07
MW-35B	1200466-10	Groundwater	2/08/12 9:30	2/08/12 17:07
MW-35C	1200466-11	Groundwater	2/08/12 11:25	2/08/12 17:07
MW-3600	1200466-12	Groundwater	2/08/12 14:00	2/08/12 17:07
MW-36	1200466-13	Groundwater	2/08/12 14:49	2/08/12 17:07
MW-33	1200466-14	Groundwater	2/08/12 16:42	2/08/12 17:07

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020812

Lab ID: 1200466-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
2-Chlorotoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
4-Chlorotoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Benzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Bromobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Bromodichloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Bromoform	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Bromomethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Carbon tetrachloride	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Chlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Chloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Chloroform	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Chloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020812

Lab ID: 1200466-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Dibromochloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Dibromomethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Ethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Isopropylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
m,p-Xylene	ND	1.0	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Methylene chloride	ND	1.0	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
n-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
n-Propylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Naphthalene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
o-Xylene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
sec-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Styrene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
tert-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Tetrachloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Toluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Trichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Vinyl chloride	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:09	
Surrogate: 1,2-Dichloroethane-d4	*117 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:09*	
Surrogate: 4-Bromofluorobenzene	*96.2 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:09*	
Surrogate: Dibromofluoromethane	*115 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:09*	
Surrogate: Toluene-d8	*109 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:09*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID RB-020812

Lab ID: 1200466-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	

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Lab ID: 1200466-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 00:58	
Surrogate: 1,2-Dichloroethane-d4	*110 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 00:58*	
Surrogate: 4-Bromofluorobenzene	*79.4 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 00:58*	
Surrogate: Dibromofluoromethane	*108 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 00:58*	
Surrogate: Toluene-d8	*97.2 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 00:58*	

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Client Sample ID RB-020812

Lab ID: 1200466-02

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 17:22	
Surrogate: 1,2-Dichlorobenzene-d4	*79.9 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 17:22*	
Surrogate: 2-Fluorobiphenyl	*85.5 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 17:22*	
Surrogate: 4-Terphenyl-d14	*108 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 17:22*	
Surrogate: Nitrobenzene-d5	*81.2 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 17:22*	

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Lab ID: 1200466-03

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	

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San Diego , CA 92122	Reported : 02/21/2012

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Lab ID: 1200466-03

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Trichlorofluoromethane	**5.3**	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:18	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:18*	
Surrogate: 4-Bromofluorobenzene	*80.1 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:18*	
Surrogate: Dibromofluoromethane	*107 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:18*	
Surrogate: Toluene-d8	*98.6 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:18*	

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Lab ID: 1200466-03

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 21:12	
Surrogate: 1,2-Dichlorobenzene-d4	*67.4 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 21:12*	
Surrogate: 2-Fluorobiphenyl	*68.7 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 21:12*	
Surrogate: 4-Terphenyl-d14	*91.5 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 21:12*	
Surrogate: Nitrobenzene-d5	*66.5 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 21:12*	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-34C

Lab ID: 1200466-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
2-Chlorotoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
4-Chlorotoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Benzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Bromobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Bromodichloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Bromoform	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Bromomethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Carbon tetrachloride	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Chlorobenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Chloroethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Chloroform	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Chloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	

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Client Sample ID MW-34C

Lab ID: 1200466-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Dibromochloromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Dibromomethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Ethylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Isopropylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
m,p-Xylene	ND	1.0	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Methylene chloride	ND	1.0	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
n-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
n-Propylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Naphthalene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
o-Xylene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
sec-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Styrene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
tert-Butylbenzene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Tetrachloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Toluene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Trichloroethene	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Vinyl chloride	ND	0.50	NA	1	B2B0385	02/16/2012	02/16/12 13:29	
Surrogate: 1,2-Dichloroethane-d4	*124 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:29*	
Surrogate: 4-Bromofluorobenzene	*98.8 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:29*	
Surrogate: Dibromofluoromethane	*119 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:29*	
Surrogate: Toluene-d8	*114 %*	*70 - 130*			B2B0385	02/16/2012	*02/16/12 13:29*	

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Client Sample ID MW-34C

Lab ID: 1200466-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 21:41	
Surrogate: 1,2-Dichlorobenzene-d4	*69.0 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 21:41*	
Surrogate: 2-Fluorobiphenyl	*71.1 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 21:41*	
Surrogate: 4-Terphenyl-d14	*102 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 21:41*	
Surrogate: Nitrobenzene-d5	*65.5 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 21:41*	

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Client Sample ID MW-34A

Lab ID: 1200466-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	

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Client Sample ID MW-34A

Lab ID: 1200466-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Trichlorofluoromethane	**0.75**	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:23	
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 03:23*	
Surrogate: 4-Bromofluorobenzene	*77.8 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 03:23*	
Surrogate: Dibromofluoromethane	*107 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 03:23*	
Surrogate: Toluene-d8	*96.5 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 03:23*	

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Lab ID: 1200466-05

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 22:10	
Surrogate: 1,2-Dichlorobenzene-d4	*74.7 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 22:10*	
Surrogate: 2-Fluorobiphenyl	*79.4 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 22:10*	
Surrogate: 4-Terphenyl-d14	*111 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 22:10*	
Surrogate: Nitrobenzene-d5	*72.0 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 22:10*	

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Lab ID: 1200466-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,1,1-Trichloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,1,2,2-Tetrachloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,1,2-Trichloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,1-Dichloroethane	**6.0**	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,1-Dichloroethene	**550**	5.0	NA	10	B2B0402	02/17/2012	02/17/12 05:24	
1,1-Dichloropropene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2,3-Trichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2,3-Trichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2,4-Trichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2,4-Trimethylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2-Dibromo-3-chloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2-Dibromoethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2-Dichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2-Dichloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,2-Dichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,3,5-Trimethylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,3-Dichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,3-Dichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
1,4-Dichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
2,2-Dichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
2-Chlorotoluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
4-Chlorotoluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
4-Isopropyltoluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Benzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Bromobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Bromodichloromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Bromoform	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Bromomethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Carbon tetrachloride	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Chlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Chloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Chloroform	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Chloromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	

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Client Sample ID MW-34B

Lab ID: 1200466-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
cis-1,3-Dichloropropene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Dibromochloromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Dibromomethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Dichlorodifluoromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Ethylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Hexachlorobutadiene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Isopropylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
m,p-Xylene	ND	5.0	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Methylene chloride	ND	5.0	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
n-Butylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
n-Propylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Naphthalene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
o-Xylene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
sec-Butylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Styrene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
tert-Butylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Tetrachloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Toluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
trans-1,2-Dichloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Trichloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Trichlorofluoromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Vinyl chloride	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 11:40	
Surrogate: 1,2-Dichloroethane-d4	*122 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:24*	
Surrogate: 1,2-Dichloroethane-d4	*123 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 11:40*	
Surrogate: 4-Bromofluorobenzene	*80.6 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:24*	
Surrogate: 4-Bromofluorobenzene	*91.2 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 11:40*	
Surrogate: Dibromofluoromethane	*118 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 11:40*	
Surrogate: Dibromofluoromethane	*113 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:24*	
Surrogate: Toluene-d8	*108 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 11:40*	
Surrogate: Toluene-d8	*98.4 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:24*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-34B

Lab ID: 1200466-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**64**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 20:24	
Surrogate: 1,2-Dichlorobenzene-d4	*64.8 %*	*37 - 93*			B2B0271	02/10/2012	*02/10/12 20:24*	
Surrogate: 2-Fluorobiphenyl	*71.3 %*	*51 - 100*			B2B0271	02/10/2012	*02/10/12 20:24*	
Surrogate: 4-Terphenyl-d14	*92.8 %*	*58 - 113*			B2B0271	02/10/2012	*02/10/12 20:24*	
Surrogate: Nitrobenzene-d5	*77.2 %*	*39 - 95*			B2B0271	02/10/2012	*02/10/12 20:24*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-3400B

Lab ID: 1200466-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,1,1-Trichloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,1,2,2-Tetrachloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,1,2-Trichloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,1-Dichloroethane	**6.0**	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,1-Dichloroethene	**570**	5.0	NA	10	B2B0402	02/17/2012	02/17/12 05:44	
1,1-Dichloropropene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2,3-Trichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2,3-Trichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2,4-Trichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2,4-Trimethylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2-Dibromo-3-chloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2-Dibromoethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2-Dichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2-Dichloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,2-Dichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,3,5-Trimethylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,3-Dichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,3-Dichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
1,4-Dichlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
2,2-Dichloropropane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
2-Chlorotoluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
4-Chlorotoluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
4-Isopropyltoluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Benzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Bromobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Bromodichloromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Bromoform	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Bromomethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Carbon tetrachloride	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Chlorobenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Chloroethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Chloroform	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Chloromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-3400B

Lab ID: 1200466-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
cis-1,3-Dichloropropene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Dibromochloromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Dibromomethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Dichlorodifluoromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Ethylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Hexachlorobutadiene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Isopropylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
m,p-Xylene	ND	5.0	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Methylene chloride	ND	5.0	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
n-Butylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
n-Propylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Naphthalene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
o-Xylene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
sec-Butylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Styrene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
tert-Butylbenzene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Tetrachloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Toluene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
trans-1,2-Dichloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Trichloroethene	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Trichlorofluoromethane	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Vinyl chloride	ND	2.5	NA	5	B2B0506	02/21/2012	02/21/12 12:01	
Surrogate: 1,2-Dichloroethane-d4	*120 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:44*	
Surrogate: 1,2-Dichloroethane-d4	*123 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:01*	
Surrogate: 4-Bromofluorobenzene	*81.3 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:44*	
Surrogate: 4-Bromofluorobenzene	*91.8 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:01*	
Surrogate: Dibromofluoromethane	*120 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:01*	
Surrogate: Dibromofluoromethane	*114 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:44*	
Surrogate: Toluene-d8	*109 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:01*	
Surrogate: Toluene-d8	*99.8 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 05:44*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-3400B

Lab ID: 1200466-07

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**66**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 20:52	
Surrogate: 1,2-Dichlorobenzene-d4	*69.2 %*	*37 - 93*			B2B0271	02/10/2012	*02/10/12 20:52*	
Surrogate: 2-Fluorobiphenyl	*72.8 %*	*51 - 100*			B2B0271	02/10/2012	*02/10/12 20:52*	
Surrogate: 4-Terphenyl-d14	*95.0 %*	*58 - 113*			B2B0271	02/10/2012	*02/10/12 20:52*	
Surrogate: Nitrobenzene-d5	*79.6 %*	*39 - 95*			B2B0271	02/10/2012	*02/10/12 20:52*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-09

Lab ID: 1200466-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-09

Lab ID: 1200466-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:43	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:43*	
Surrogate: 4-Bromofluorobenzene	*78.8 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:43*	
Surrogate: Dibromofluoromethane	*107 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:43*	
Surrogate: Toluene-d8	*96.9 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:43*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-09

Lab ID: 1200466-08

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/10/12 10:14	
Surrogate: 1,2-Dichlorobenzene-d4	*86.4 %*		*36 - 107*		B2B0237	02/09/2012	*02/10/12 10:14*	
Surrogate: 2-Fluorobiphenyl	*95.6 %*		*42 - 120*		B2B0237	02/09/2012	*02/10/12 10:14*	
Surrogate: 4-Terphenyl-d14	*125 %*		*67 - 142*		B2B0237	02/09/2012	*02/10/12 10:14*	
Surrogate: Nitrobenzene-d5	*87.5 %*		*36 - 130*		B2B0237	02/09/2012	*02/10/12 10:14*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-35A

Lab ID: 1200466-09

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Chloroform	**4.4**	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Lab ID: 1200466-09

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 01:42	
Surrogate: 1,2-Dichloroethane-d4	*112 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:42*	
Surrogate: 4-Bromofluorobenzene	*79.4 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:42*	
Surrogate: Dibromofluoromethane	*108 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:42*	
Surrogate: Toluene-d8	*97.5 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 01:42*	

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Lab ID: 1200466-09

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/10/12 10:42	
Surrogate: 1,2-Dichlorobenzene-d4	*91.2 %*		*36 - 107*		B2B0237	02/09/2012	*02/10/12 10:42*	
Surrogate: 2-Fluorobiphenyl	*96.9 %*		*42 - 120*		B2B0237	02/09/2012	*02/10/12 10:42*	
Surrogate: 4-Terphenyl-d14	*125 %*		*67 - 142*		B2B0237	02/09/2012	*02/10/12 10:42*	
Surrogate: Nitrobenzene-d5	*99.2 %*		*36 - 130*		B2B0237	02/09/2012	*02/10/12 10:42*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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Client Sample ID MW-35B

Lab ID: 1200466-10

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-35B

Lab ID: 1200466-10

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:02	
Surrogate: 1,2-Dichloroethane-d4	*111 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:02*	
Surrogate: 4-Bromofluorobenzene	*77.8 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:02*	
Surrogate: Dibromofluoromethane	*106 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:02*	
Surrogate: Toluene-d8	*96.2 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 02:02*	

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Client Sample ID MW-35B

Lab ID: 1200466-10

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/10/12 11:10	
Surrogate: 1,2-Dichlorobenzene-d4	*85.6 %*		*36 - 107*		B2B0237	02/09/2012	*02/10/12 11:10*	
Surrogate: 2-Fluorobiphenyl	*89.1 %*		*42 - 120*		B2B0237	02/09/2012	*02/10/12 11:10*	
Surrogate: 4-Terphenyl-d14	*125 %*		*67 - 142*		B2B0237	02/09/2012	*02/10/12 11:10*	
Surrogate: Nitrobenzene-d5	*82.8 %*		*36 - 130*		B2B0237	02/09/2012	*02/10/12 11:10*	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-35C

Lab ID: 1200466-11

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	

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Client Sample ID MW-35C

Lab ID: 1200466-11

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:43	
Surrogate: 1,2-Dichloroethane-d4	*111 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:43*	
Surrogate: 4-Bromofluorobenzene	*78.9 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:43*	
Surrogate: Dibromofluoromethane	*108 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:43*	
Surrogate: Toluene-d8	*96.3 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:43*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
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Client Sample ID MW-35C

Lab ID: 1200466-11

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/10/12 11:39	
Surrogate: 1,2-Dichlorobenzene-d4	*85.9 %*		*36 - 107*		B2B0237	02/09/2012	*02/10/12 11:39*	
Surrogate: 2-Fluorobiphenyl	*90.8 %*		*42 - 120*		B2B0237	02/09/2012	*02/10/12 11:39*	
Surrogate: 4-Terphenyl-d14	*122 %*		*67 - 142*		B2B0237	02/09/2012	*02/10/12 11:39*	
Surrogate: Nitrobenzene-d5	*82.7 %*		*36 - 130*		B2B0237	02/09/2012	*02/10/12 11:39*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-3600

Lab ID: 1200466-12

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,1-Dichloroethene	**3.3**	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	

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Client Sample ID MW-3600

Lab ID: 1200466-12

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Toluene	**5.1**	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 03:03	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:03*	
Surrogate: 4-Bromofluorobenzene	*77.9 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:03*	
Surrogate: Dibromofluoromethane	*109 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:03*	
Surrogate: Toluene-d8	*96.7 %*	*70 - 130*			B2B0402	02/17/2012	*02/17/12 03:03*	

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Lab ID: 1200466-12

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/10/12 12:08	
Surrogate: 1,2-Dichlorobenzene-d4	*85.9 %*		*36 - 107*		B2B0237	02/09/2012	*02/10/12 12:08*	
Surrogate: 2-Fluorobiphenyl	*89.8 %*		*42 - 120*		B2B0237	02/09/2012	*02/10/12 12:08*	
Surrogate: 4-Terphenyl-d14	*116 %*		*67 - 142*		B2B0237	02/09/2012	*02/10/12 12:08*	
Surrogate: Nitrobenzene-d5	*85.3 %*		*36 - 130*		B2B0237	02/09/2012	*02/10/12 12:08*	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-36

Lab ID: 1200466-13

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,1-Dichloroethene	**2.9**	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
2-Chlorotoluene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
4-Chlorotoluene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Benzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Bromobenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Bromodichloromethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Bromoform	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Bromomethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Carbon tetrachloride	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Chlorobenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Chloroethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Chloroform	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Chloromethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	

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Lab ID: 1200466-13

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Dibromochloromethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Dibromomethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Ethylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Isopropylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
m,p-Xylene	ND	1.0	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Methylene chloride	ND	1.0	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
n-Butylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
n-Propylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Naphthalene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
o-Xylene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
sec-Butylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Styrene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
tert-Butylbenzene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Tetrachloroethene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Toluene	**4.2**	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Trichloroethene	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Vinyl chloride	ND	0.50	NA	1	B2B0275	02/10/2012	02/10/12 22:23	
Surrogate: 1,2-Dichloroethane-d4	*88.4 %*	*70 - 130*			B2B0275	02/10/2012	*02/10/12 22:23*	
Surrogate: 4-Bromofluorobenzene	*75.2 %*	*70 - 130*			B2B0275	02/10/2012	*02/10/12 22:23*	
Surrogate: Dibromofluoromethane	*90.5 %*	*70 - 130*			B2B0275	02/10/2012	*02/10/12 22:23*	
Surrogate: Toluene-d8	*89.4 %*	*70 - 130*			B2B0275	02/10/2012	*02/10/12 22:23*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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Lab ID: 1200466-13

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 16:52	
Surrogate: 1,2-Dichlorobenzene-d4	*86.7 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 16:52*	
Surrogate: 2-Fluorobiphenyl	*89.3 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 16:52*	
Surrogate: 4-Terphenyl-d14	*113 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 16:52*	
Surrogate: Nitrobenzene-d5	*82.4 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 16:52*	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-33

Lab ID: 1200466-14

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,1-Dichloroethene	**3.9**	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
2-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
4-Chlorotoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Benzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Bromobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Bromodichloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Bromoform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Bromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Carbon tetrachloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Chlorobenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Chloroethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Chloroform	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Chloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	

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Client Sample ID MW-33

Lab ID: 1200466-14

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Dibromochloromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Dibromomethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Ethylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Isopropylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
m,p-Xylene	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Methylene chloride	ND	1.0	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
n-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
n-Propylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Naphthalene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
o-Xylene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
sec-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Styrene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
tert-Butylbenzene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Tetrachloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Toluene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Trichloroethene	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Vinyl chloride	ND	0.50	NA	1	B2B0402	02/17/2012	02/17/12 02:23	
Surrogate: 1,2-Dichloroethane-d4	*111 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 02:23*	
Surrogate: 4-Bromofluorobenzene	*78.7 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 02:23*	
Surrogate: Dibromofluoromethane	*108 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 02:23*	
Surrogate: Toluene-d8	*97.6 %*		*70 - 130*		B2B0402	02/17/2012	*02/17/12 02:23*	

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Lab ID: 1200466-14

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0237	02/09/2012	02/10/12 12:38	
Surrogate: 1,2-Dichlorobenzene-d4	*81.7 %*		*36 - 107*		B2B0237	02/09/2012	*02/10/12 12:38*	
Surrogate: 2-Fluorobiphenyl	*86.5 %*		*42 - 120*		B2B0237	02/09/2012	*02/10/12 12:38*	
Surrogate: 4-Terphenyl-d14	*117 %*		*67 - 142*		B2B0237	02/09/2012	*02/10/12 12:38*	
Surrogate: Nitrobenzene-d5	*79.7 %*		*36 - 130*		B2B0237	02/09/2012	*02/10/12 12:38*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0275 - MSVOAW_LL									
Blank (B2B0275-BLK1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0275 - MSVOAW_LL (continued)									
Blank (B2B0275-BLK1) - Continued				Prepared: 2/10/2012 Analyzed: 2/10/2012					
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*92.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.1*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*98.3*	*70 - 130*			
LCS (B2B0275-BS1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,1-Dichloroethene	16	0.50	20.0		79.4	70 - 130			
Benzene	37	0.50	40.0		93.3	70 - 130			
Chlorobenzene	20	0.50	20.0		100	70 - 130			
MTBE	20	0.50	20.0		99.6	70 - 130			
Toluene	39	0.50	40.0		97.6	70 - 130			
Trichloroethene	20	0.50	20.0		98.8	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*98.7*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.9*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*98.3*	*70 - 130*			
LCS (B2B0275-BS2)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,1-Dichloroethene	16	0.50	20.0		78.9	70 - 130			
Benzene	38	0.50	40.0		94.1	70 - 130			
Chlorobenzene	20	0.50	20.0		101	70 - 130			
MTBE	19	0.50	20.0		96.6	70 - 130			
Toluene	39	0.50	40.0		98.4	70 - 130			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0275 - MSVOAW_LL (continued)									
LCS (B2B0275-BS2) - Continued					Prepared: 2/10/2012 Analyzed: 2/10/2012				
Trichloroethene	20	0.50	20.0		99.6	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*91.3*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*19*		*25.0*		*77.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*89.9*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*91.7*	*70 - 130*			
LCS Dup (B2B0275-BSD2)					Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,1-Dichloroethene	16	0.50	20.0		78.8	70 - 130	0.190		
Benzene	38	0.50	40.0		94.7	70 - 130	0.662		
Chlorobenzene	20	0.50	20.0		101	70 - 130	0.297		
MTBE	19	0.50	20.0		97.0	70 - 130	0.413		
Toluene	39	0.50	40.0		98.6	70 - 130	0.178		
Trichloroethene	20	0.50	20.0		99.8	70 - 130	0.251		
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.0*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.7*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*98.1*	*70 - 130*			
Batch B2B0385 - MSVOAW_LL									
Blank (B2B0385-BLK1)					Prepared: 2/16/2012 Analyzed: 2/16/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
Blank (B2B0385-BLK1) - Continued				Prepared: 2/16/2012 Analyzed: 2/16/2012					
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*90.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*111*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
LCS (B2B0385-BS1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	19		20.0		94.2	70 - 130			
Benzene	42		40.0		105	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	23		20.0		115	70 - 130			
Toluene	43		40.0		107	70 - 130			
Trichloroethene	22		20.0		108	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
LCS Dup (B2B0385-BSD1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	19		20.0		94.4	70 - 130	0.265	20	
Benzene	42		40.0		104	70 - 130	0.334	20	
Chlorobenzene	22		20.0		111	70 - 130	0.582	20	
MTBE	22		20.0		111	70 - 130	3.41	20	
Toluene	43		40.0		107	70 - 130	0.420	20	
Trichloroethene	21		20.0		107	70 - 130	0.745	20	
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*110*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Matrix Spike (B2B0385-MS1)		**Source: 1200466-04**		Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	22		20.0	ND	109	70 - 130			
Benzene	45		40.0	ND	114	70 - 130			
Chlorobenzene	24		20.0	ND	120	70 - 130			
MTBE	24		20.0	ND	118	70 - 130			
Toluene	47		40.0	ND	118	70 - 130			
Trichloroethene	24		20.0	ND	120	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*110*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Matrix Spike Dup (B2B0385-MSD1)		**Source: 1200466-04**		Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	20		20.0	ND	98.7	70 - 130	10.2	20	
Benzene	41		40.0	ND	103	70 - 130	9.68	20	
Chlorobenzene	22		20.0	ND	111	70 - 130	7.83	20	
MTBE	22		20.0	ND	109	70 - 130	8.26	20	
Toluene	42		40.0	ND	106	70 - 130	11.0	20	
Trichloroethene	21		20.0	ND	107	70 - 130	11.3	20	

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
Matrix Spike Dup (B2B0385-MSD1) - Continued			**Source: 1200466-04**		Prepared: 2/16/2012 Analyzed: 2/16/2012				
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Batch B2B0402 - MSVOAW_LL									
Blank (B2B0402-BLK1)					Prepared: 2/16/2012 Analyzed: 2/16/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0402 - MSVOAW_LL (continued)									
Blank (B2B0402-BLK1) - Continued				Prepared: 2/16/2012 Analyzed: 2/16/2012					
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*101*	*70 - 130*			
LCS (B2B0402-BS1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	19		20.0		95.7	70 - 130			
Benzene	41		40.0		103	70 - 130			
Chlorobenzene	22		20.0		111	70 - 130			
MTBE	20		20.0		98.9	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	22		20.0		110	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*81.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.1*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*98.0*	*70 - 130*			
LCS (B2B0402-BS2)				Prepared: 2/16/2012 Analyzed: 2/16/2012					

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0402 - MSVOAW_LL (continued)									
1,1-Dichloroethene	19		20.0		93.4	70 - 130			
Benzene	41		40.0		104	70 - 130			
Chlorobenzene	22		20.0		111	70 - 130			
MTBE	21		20.0		104	70 - 130			
Toluene	43		40.0		106	70 - 130			
Trichloroethene	22		20.0		112	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*79.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*100*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.1*	*70 - 130*			
LCS Dup (B2B0402-BSD1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	20		20.0		99.2	70 - 130	3.54	20	
Benzene	42		40.0		104	70 - 130	1.67	20	
Chlorobenzene	22		20.0		112	70 - 130	1.21	20	
MTBE	21		20.0		106	70 - 130	6.51	20	
Toluene	43		40.0		107	70 - 130	1.22	20	
Trichloroethene	22		20.0		111	70 - 130	0.858	20	
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*106*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*79.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.9*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.2*	*70 - 130*			
LCS Dup (B2B0402-BSD2)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	19		20.0		95.0	70 - 130	1.75		
Benzene	41		40.0		103	70 - 130	0.217		
Chlorobenzene	22		20.0		110	70 - 130	0.497		
MTBE	21		20.0		105	70 - 130	0.719		
Toluene	43		40.0		107	70 - 130	0.982		
Trichloroethene	22		20.0		108	70 - 130	3.64		
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*79.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*100*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.3*	*70 - 130*			
Batch B2B0500 - MSVOAW_LL									
Blank (B2B0500-BLK1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
Blank (B2B0500-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
Blank (B2B0500-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS (B2B0500-BS1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		95.2	70 - 130			
Benzene	40		40.0		99.8	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	20		20.0		101	70 - 130			
Toluene	41		40.0		102	70 - 130			
Trichloroethene	21		20.0		105	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*86.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS (B2B0500-BS2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		91.1	70 - 130			
Benzene	40		40.0		101	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	21		20.0		107	70 - 130			
Toluene	42		40.0		104	70 - 130			
Trichloroethene	21		20.0		107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS Dup (B2B0500-BSD1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		93.2	70 - 130	2.12	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS Dup (B2B0500-BSD1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
Benzene	40		40.0		101	70 - 130	1.39	20	
Chlorobenzene	22		20.0		110	70 - 130	0.319	20	
MTBE	21		20.0		104	70 - 130	3.51	20	
Toluene	42		40.0		105	70 - 130	2.56	20	
Trichloroethene	22		20.0		108	70 - 130	2.67	20	
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			
LCS Dup (B2B0500-BSD2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		90.2	70 - 130	0.993		
Benzene	41		40.0		102	70 - 130	1.35		
Chlorobenzene	22		20.0		111	70 - 130	1.49		
MTBE	22		20.0		110	70 - 130	2.53		
Toluene	42		40.0		105	70 - 130	1.17		
Trichloroethene	22		20.0		108	70 - 130	0.836		
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
Batch B2B0506 - MSVOAW_LL									
Blank (B2B0506-BLK1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
Blank (B2B0506-BLK1) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
Blank (B2B0506-BLK1) - Continued					Prepared: 2/21/2012 Analyzed: 2/21/2012				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			
Blank (B2B0506-BLK2)					Prepared: 2/21/2012 Analyzed: 2/21/2012				
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	5.0			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
Blank (B2B0506-BLK2) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				
Dichlorodifluoromethane	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	10			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			
LCS (B2B0506-BS1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		97.2	70 - 130			
Benzene	42		40.0		104	70 - 130			
Chlorobenzene	22		20.0		109	70 - 130			
MTBE	22		20.0		112	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	24		20.0		118	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*32*		*25.0*		*127*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*112*	*70 - 130*			
LCS (B2B0506-BS2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	20		20.0		98.0	70 - 130			
Benzene	42		40.0		105	70 - 130			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - MSVOAW_LL (continued)									
LCS (B2B0506-BS2) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	22		20.0		111	70 - 130			
Toluene	43		40.0		108	70 - 130			
Trichloroethene	24		20.0		119	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*113*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*112*	*70 - 130*			
LCS Dup (B2B0506-BSD1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		94.0	70 - 130	3.24	20	
Benzene	41		40.0		102	70 - 130	1.38	20	
Chlorobenzene	22		20.0		110	70 - 130	0.594	20	
MTBE	22		20.0		112	70 - 130	0.268	20	
Toluene	42		40.0		105	70 - 130	0.900	20	
Trichloroethene	23		20.0		116	70 - 130	1.54	20	
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*122*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*114*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			
LCS Dup (B2B0506-BSD2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		92.6	70 - 130	5.61		
Benzene	41		40.0		102	70 - 130	2.88		
Chlorobenzene	22		20.0		110	70 - 130	1.44		
MTBE	22		20.0		111	70 - 130	0.450		
Toluene	42		40.0		105	70 - 130	2.39		
Trichloroethene	23		20.0		116	70 - 130	2.63		
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*110*	*70 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI									
Blank (B2B0271-BLK1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	ND	2.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*75*		*100*		*75.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*86*		*100*		*85.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*110*		*100*		*106*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.7*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
LCS (B2B0271-BS1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	93	2.0	100		93.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*76*		*100*		*76.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*84*		*100*		*84.2*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*96*		*100*		*95.7*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.9*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
Matrix Spike (B2B0271-MS1)		**Source: 1200453-02**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	110	2.0	100	6.4	102	0 - 200			
Surrogate: 1,2-Dichlorobenzene-d4	*79*		*100*		*78.7*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*89*		*100*		*88.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*97*		*100*		*97.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*100*		*100*		*101*	*39 - 95*			S8

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
Matrix Spike Dup (B2B0271-MSD1)		**Source: 1200453-02**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	110	2.0	100	6.4	103	0 - 200	1.19	200	
Surrogate: 1,2-Dichlorobenzene-d4	*74*		*100*		*74.4*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*83*		*100*		*82.9*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*89*		*100*		*89.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*94*		*100*		*93.6*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN									
Blank (B2B0237-BLK1)			Prepared: 2/9/2012 Analyzed: 2/9/2012						
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.84*		*1.00*		*84.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.87*		*1.00*		*87.3*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*114*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.86*		*1.00*		*85.6*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B2B0237-BS1)				Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.83	0.20	1.00		83.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.89*		*1.00*		*88.7*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.94*		*1.00*		*93.5*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*112*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.96*		*1.00*		*96.3*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
Matrix Spike (B2B0237-MS1)		**Source: 1200446-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.80	0.20	1.00	ND	80.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.88*		*1.00*		*88.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.92*		*1.00*		*92.4*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*108*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.92*		*1.00*		*92.1*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
Matrix Spike Dup (B2B0237-MSD1)		**Source: 1200446-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.87	0.20	1.00	ND	86.6	70 - 130	7.56	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.91*		*1.00*		*90.9*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.99*		*1.00*		*98.7*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*112*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.96*		*1.00*		*95.5*	*36 - 130*			

Hargis & Associates, Inc.		Project Number :	RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2012

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/8/12 PAGE 1 OF 2

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Hetto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Beam / DANIEL MORA	SAMPLER (PRINTED): Amanda Beam / DANIEL MORA

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0 - 10	10 - 100	100 - 1,000	> 1,000	SPECIAL HANDLING: Standard TAT	MS/MSD	REMARKS
1200466-01	TB-020812	2/8/12	700				X	X				X	2		X			X						
2	RB-020812		850				X	X				X	3		X			X						
	↓		850				X					X		1		X								
3	MW-13		1003		X			X				X	3		X			X						
	↓		↓		X							X		1		X								
4	MW-34C		1112		X			X				X	3		X			X					X	6 VOAs collected
	↓		↓		X							X		1		X							~~X~~	~~2 - 1L Ambers collected~~
5	MW-34A		1158		X			X				X	3		X			X						
	↓		↓		X							X		1		X								
6	MW-34B		1436		X			X				X	3		X					X				
	↓		↓		X							X		1			X							
7	MW-34DB		1456		X			X				X	3		X					X				
	↓		↓		X							X		1			X							
8	MW-09		1632		X			X				X	3	1	X	X								
Total number of Containers per analysis:													23	7									Total No. of Containers:	40 (36)

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
[signature]	2/8/12	1725 / 1720	H+A, INC	[signature]	2/8/12	1707	ATL
[signature]	2/8/12	1820	ATL	[signature]	2/8/12	1820	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt _____ °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop Off

Send Results to: Steve Hetto

- [X] 9171 TOWNE CENTRE DRIVE, SUITE 375, SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124, MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220, TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

LABORATORY INFORMATION: ATL, Attn: Rachelle Arada

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/8/12 PAGE 2 OF 2

PROJECT NAME	RAYTHEON MAIN	PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross	Phone No.	858-455-5500
QA MANAGER	Steve Netto	Fax No.	858-455-5533
SAMPLER (SIGNATURE)		SAMPLER (PRINTED)	Erin Hunter, Elizabeth Bigsby

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0 - 10	10 - 100	100 - 1,000	> 1,000	SPECIAL HANDLING: Standard TAT	MS/MSD	48-Hr TAT	LABORATORY INFORMATION / REMARKS
200466-9	MW-35A	2/8/12	842		X			X				X	3		X			X				X			
	↓		↓		X							X		1		X						X			
10	MW-35B		930		X			X				X	3		X			X				X			
	↓		↓		X							X		1		X						X			
11	MW-35C		1125		X			X				X	3		X			X				X			
	↓		↓		X							X		1		X						X			
12	MW-3600		1400		X			X				X	3		X			X				X			
	↓		↓		X							X		1		X						X			
13	MW-36		1449		X			X				X	3		X			X						X	
	↓		↓		X							X		1		X								X	
14	MW-33		1642		X			X				X	3		X			X				X			
	↓		↓		X							X		1		X						X			
Total number of Containers per analysis:													10	6								Total No. of Containers: 24			

Relinquished by:	Date	Time	Received by:	Date	Time
	02/08/12	17:07		2/8/12	1707
H+A, Inc			ATL		
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
	2/8/12	1820		2/9/12	1110
ATL					
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
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3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt _____ °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop Off

Send Results to: Steve Netto

- [X] 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

February 21, 2012

ACCREDITED IN ACCORDANCE WITH nelac
ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200488

Client Reference : RAYTHEON MAIN, 532.30

Enclosed are the results for sample(s) received on February 09, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

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Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-06	1200488-01	Groundwater	2/08/12 18:05	2/09/12 17:20
TB-020912	1200488-02	Lab H2O	2/09/12 7:00	2/09/12 17:20
MW-15	1200488-03	Groundwater	2/09/12 10:03	2/09/12 17:20
P-09	1200488-04	Groundwater	2/09/12 11:30	2/09/12 17:20
MW-08	1200488-05	Groundwater	2/09/12 13:20	2/09/12 17:20
P-07	1200488-06	Groundwater	2/09/12 14:50	2/09/12 17:20
MW-30A	1200488-07	Groundwater	2/09/12 9:14	2/09/12 17:20
MW-30B	1200488-08	Groundwater	2/09/12 10:12	2/09/12 17:20
MW-2900	1200488-09	Groundwater	2/09/12 11:00	2/09/12 17:20
MW-29	1200488-10	Groundwater	2/09/12 11:07	2/09/12 17:20
MW-31	1200488-11	Groundwater	2/09/12 13:19	2/09/12 17:20
MW-19	1200488-12	Groundwater	2/09/12 9:45	2/09/12 17:20
MW-28	1200488-13	Groundwater	2/09/12 10:12	2/09/12 17:20
MW-27	1200488-14	Groundwater	2/09/12 10:41	2/09/12 17:20
MW-22	1200488-15	Groundwater	2/09/12 12:00	2/09/12 17:20
MW-23	1200488-16	Groundwater	2/09/12 13:30	2/09/12 17:20
MW-24	1200488-17	Groundwater	2/09/12 14:50	2/09/12 17:20
MW-26C	1200488-18	Groundwater	2/09/12 17:15	2/09/12 17:20

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-06

Lab ID: 1200488-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Chloroform	**1.5**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-06

Lab ID: 1200488-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:29	
Surrogate: 1,2-Dichloroethane-d4	*124 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:29*	
Surrogate: 4-Bromofluorobenzene	*92.1 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:29*	
Surrogate: Dibromofluoromethane	*118 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:29*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:29*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020912

Lab ID: 1200488-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020912

Lab ID: 1200488-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:09	
Surrogate: 1,2-Dichloroethane-d4	*123 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 00:09*	
Surrogate: 4-Bromofluorobenzene	*92.8 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 00:09*	
Surrogate: Dibromofluoromethane	*118 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 00:09*	
Surrogate: Toluene-d8	*110 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 00:09*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-15

Lab ID: 1200488-03

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-15

Lab ID: 1200488-03

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Trichloroethene	**4.0**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Trichlorofluoromethane	**9.1**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:12	
Surrogate: 1,2-Dichloroethane-d4	*126 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:12*	
Surrogate: 4-Bromofluorobenzene	*93.0 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:12*	
Surrogate: Dibromofluoromethane	*123 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:12*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:12*	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID P-09

Lab ID: 1200488-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,1-Dichloroethene	**2.0**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	

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San Diego , CA 92122	Reported : 02/21/2012

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Lab ID: 1200488-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:32	
Surrogate: 1,2-Dichloroethane-d4	*121 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 03:32*	
Surrogate: 4-Bromofluorobenzene	*92.7 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 03:32*	
Surrogate: Dibromofluoromethane	*120 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 03:32*	
Surrogate: Toluene-d8	*111 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 03:32*	

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Lab ID: 1200488-04

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.68**	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 20:27	
Surrogate: 1,2-Dichlorobenzene-d4	*85.4 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 20:27*	
Surrogate: 2-Fluorobiphenyl	*94.6 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 20:27*	
Surrogate: 4-Terphenyl-d14	*120 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 20:27*	
Surrogate: Nitrobenzene-d5	*83.0 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 20:27*	

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San Diego , CA 92122	Reported : 02/21/2012

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Lab ID: 1200488-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,1,1-Trichloroethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,1,2,2-Tetrachloroethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,1,2-Trichloroethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,1-Dichloroethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,1-Dichloroethene	**29**	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,1-Dichloropropene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2,3-Trichloropropane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2,3-Trichlorobenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2,4-Trichlorobenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2,4-Trimethylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2-Dibromo-3-chloropropane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2-Dibromoethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2-Dichlorobenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2-Dichloroethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,2-Dichloropropane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,3,5-Trimethylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,3-Dichlorobenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,3-Dichloropropane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
1,4-Dichlorobenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
2,2-Dichloropropane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
2-Chlorotoluene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
4-Chlorotoluene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
4-Isopropyltoluene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Benzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Bromobenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Bromodichloromethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Bromoform	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Bromomethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Carbon tetrachloride	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Chlorobenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Chloroethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Chloroform	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Chloromethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	

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Lab ID: 1200488-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**8.4**	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
cis-1,3-Dichloropropene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Dibromochloromethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Dibromomethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Dichlorodifluoromethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Ethylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Hexachlorobutadiene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Isopropylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
m,p-Xylene	ND	2.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Methylene chloride	ND	2.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
n-Butylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
n-Propylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Naphthalene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
o-Xylene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
sec-Butylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Styrene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
tert-Butylbenzene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Tetrachloroethene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Toluene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
trans-1,2-Dichloroethene	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Trichloroethene	**170**	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Trichlorofluoromethane	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Vinyl chloride	ND	1.0	NA	2	B2B0506	02/21/2012	02/21/12 13:46	
Surrogate: 1,2-Dichloroethane-d4	*123 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 13:46*	
Surrogate: 4-Bromofluorobenzene	*94.2 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 13:46*	
Surrogate: Dibromofluoromethane	*118 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 13:46*	
Surrogate: Toluene-d8	*107 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 13:46*	

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Lab ID: 1200488-05

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.94**	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 20:54	
Surrogate: 1,2-Dichlorobenzene-d4	*78.7 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 20:54*	
Surrogate: 2-Fluorobiphenyl	*95.2 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 20:54*	
Surrogate: 4-Terphenyl-d14	*112 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 20:54*	
Surrogate: Nitrobenzene-d5	*81.3 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 20:54*	

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Client Sample ID P-07

Lab ID: 1200488-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,1,1-Trichloroethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,1,2,2-Tetrachloroethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,1,2-Trichloroethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,1-Dichloroethane	**33**	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,1-Dichloroethene	**2800**	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,1-Dichloropropene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2,3-Trichloropropane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2,3-Trichlorobenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2,4-Trichlorobenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2,4-Trimethylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2-Dibromo-3-chloropropane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2-Dibromoethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2-Dichlorobenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2-Dichloroethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,2-Dichloropropane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,3,5-Trimethylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,3-Dichlorobenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,3-Dichloropropane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
1,4-Dichlorobenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
2,2-Dichloropropane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
2-Chlorotoluene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
4-Chlorotoluene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
4-Isopropyltoluene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Benzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Bromobenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Bromodichloromethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Bromoform	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Bromomethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Carbon tetrachloride	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Chlorobenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Chloroethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Chloroform	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Chloromethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID P-07

Lab ID: 1200488-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
cis-1,3-Dichloropropene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Dibromochloromethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Dibromomethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Dichlorodifluoromethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Ethylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Hexachlorobutadiene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Isopropylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
m,p-Xylene	ND	40	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Methylene chloride	ND	40	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
n-Butylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
n-Propylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Naphthalene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
o-Xylene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
sec-Butylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Styrene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
tert-Butylbenzene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Tetrachloroethene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Toluene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
trans-1,2-Dichloroethene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Trichloroethene	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Trichlorofluoromethane	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Vinyl chloride	ND	20	NA	40	B2B0506	02/21/2012	02/21/12 14:27	
Surrogate: 1,2-Dichloroethane-d4	*127 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 14:27*	
Surrogate: 4-Bromofluorobenzene	*92.6 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 14:27*	
Surrogate: Dibromofluoromethane	*121 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 14:27*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0506	02/21/2012	*02/21/12 14:27*	

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Lab ID: 1200488-06

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**2200**	20	17	10	B2B0271	02/10/2012	02/13/12 13:22	
Surrogate: 1,2-Dichlorobenzene-d4	*116 %*	*37 - 93*			B2B0271	02/10/2012	*02/13/12 13:22*	S8
Surrogate: 2-Fluorobiphenyl	*131 %*	*51 - 100*			B2B0271	02/10/2012	*02/13/12 13:22*	S8
Surrogate: 4-Terphenyl-d14	*147 %*	*58 - 113*			B2B0271	02/10/2012	*02/13/12 13:22*	S8
Surrogate: Nitrobenzene-d5	*121 %*	*39 - 95*			B2B0271	02/10/2012	*02/13/12 13:22*	S8

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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Lab ID: 1200488-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,1-Dichloroethene	**0.66**	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
2-Chlorotoluene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
4-Chlorotoluene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Benzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Bromobenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Bromodichloromethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Bromoform	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Bromomethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Carbon tetrachloride	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Chlorobenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Chloroethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Chloroform	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Chloromethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	

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Lab ID: 1200488-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Dibromochloromethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Dibromomethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Ethylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Isopropylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
m,p-Xylene	ND	1.0	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Methylene chloride	ND	1.0	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
n-Butylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
n-Propylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Naphthalene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
o-Xylene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
sec-Butylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Styrene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
tert-Butylbenzene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Tetrachloroethene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Toluene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Trichloroethene	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Vinyl chloride	ND	0.50	NA	1	B2B0455	02/20/2012	02/20/12 15:40	
Surrogate: 1,2-Dichloroethane-d4	*120 %*	*70 - 130*			B2B0455	02/20/2012	*02/20/12 15:40*	
Surrogate: 4-Bromofluorobenzene	*93.2 %*	*70 - 130*			B2B0455	02/20/2012	*02/20/12 15:40*	
Surrogate: Dibromofluoromethane	*117 %*	*70 - 130*			B2B0455	02/20/2012	*02/20/12 15:40*	
Surrogate: Toluene-d8	*109 %*	*70 - 130*			B2B0455	02/20/2012	*02/20/12 15:40*	

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1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 21:22	
Surrogate: 1,2-Dichlorobenzene-d4	*69.8 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 21:22*	
Surrogate: 2-Fluorobiphenyl	*84.5 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 21:22*	
Surrogate: 4-Terphenyl-d14	*101 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 21:22*	
Surrogate: Nitrobenzene-d5	*79.0 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 21:22*	

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Client Sample ID MW-30B

Lab ID: 1200488-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,1-Dichloroethene	**14**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	

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Lab ID: 1200488-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	**4.2**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Trichloroethene	**75**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 03:52	
Surrogate: 1,2-Dichloroethane-d4	*126 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:52*	
Surrogate: 4-Bromofluorobenzene	*92.9 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:52*	
Surrogate: Dibromofluoromethane	*121 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:52*	
Surrogate: Toluene-d8	*108 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 03:52*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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Client Sample ID MW-30B

Lab ID: 1200488-08

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.30**	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 21:49	
Surrogate: 1,2-Dichlorobenzene-d4	*75.3 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 21:49*	
Surrogate: 2-Fluorobiphenyl	*94.1 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 21:49*	
Surrogate: 4-Terphenyl-d14	*111 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 21:49*	
Surrogate: Nitrobenzene-d5	*82.2 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 21:49*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-2900

Lab ID: 1200488-09

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,1,1-Trichloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,1,2-Trichloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,1-Dichloroethane	**9.0**	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,1-Dichloroethene	**910**	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,1-Dichloropropene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2,3-Trichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2,3-Trichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2,4-Trichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2,4-Trimethylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2-Dibromo-3-chloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2-Dibromoethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2-Dichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2-Dichloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,2-Dichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,3,5-Trimethylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,3-Dichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,3-Dichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
1,4-Dichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
2,2-Dichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
2-Chlorotoluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
4-Chlorotoluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
4-Isopropyltoluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Benzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Bromobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Bromodichloromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Bromoform	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Bromomethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Carbon tetrachloride	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Chlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Chloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Chloroform	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Chloromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	

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Lab ID: 1200488-09

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
cis-1,3-Dichloropropene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Dibromochloromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Dibromomethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Dichlorodifluoromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Ethylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Hexachlorobutadiene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Isopropylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
m,p-Xylene	ND	10	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Methylene chloride	ND	10	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
n-Butylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
n-Propylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Naphthalene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
o-Xylene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
sec-Butylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Styrene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
tert-Butylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Tetrachloroethene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Toluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
trans-1,2-Dichloroethene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Trichloroethene	**7.1**	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Trichlorofluoromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Vinyl chloride	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 12:25	
Surrogate: 1,2-Dichloroethane-d4	*123 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:25*	
Surrogate: 4-Bromofluorobenzene	*92.8 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:25*	
Surrogate: Dibromofluoromethane	*122 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:25*	
Surrogate: Toluene-d8	*108 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 12:25*	

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Lab ID: 1200488-09

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**120**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 21:49	
Surrogate: 1,2-Dichlorobenzene-d4	*72.6 %*	*37 - 93*			B2B0271	02/10/2012	*02/10/12 21:49*	
Surrogate: 2-Fluorobiphenyl	*77.8 %*	*51 - 100*			B2B0271	02/10/2012	*02/10/12 21:49*	
Surrogate: 4-Terphenyl-d14	*102 %*	*58 - 113*			B2B0271	02/10/2012	*02/10/12 21:49*	
Surrogate: Nitrobenzene-d5	*87.0 %*	*39 - 95*			B2B0271	02/10/2012	*02/10/12 21:49*	

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San Diego , CA 92122	Reported : 02/21/2012

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Lab ID: 1200488-10

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,1,1-Trichloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,1,2-Trichloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,1-Dichloroethane	**9.2**	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,1-Dichloroethene	**900**	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,1-Dichloropropene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2,3-Trichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2,3-Trichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2,4-Trichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2,4-Trimethylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2-Dibromo-3-chloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2-Dibromoethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2-Dichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2-Dichloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,2-Dichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,3,5-Trimethylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,3-Dichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,3-Dichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
1,4-Dichlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
2,2-Dichloropropane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
2-Chlorotoluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
4-Chlorotoluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
4-Isopropyltoluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Benzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Bromobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Bromodichloromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Bromoform	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Bromomethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Carbon tetrachloride	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Chlorobenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Chloroethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Chloroform	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Chloromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	

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San Diego , CA 92122	Reported : 02/21/2012

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Lab ID: 1200488-10

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
cis-1,3-Dichloropropene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Dibromochloromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Dibromomethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Dichlorodifluoromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Ethylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Hexachlorobutadiene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Isopropylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
m,p-Xylene	ND	10	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Methylene chloride	ND	10	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
n-Butylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
n-Propylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Naphthalene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
o-Xylene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
sec-Butylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Styrene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
tert-Butylbenzene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Tetrachloroethene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Toluene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
trans-1,2-Dichloroethene	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Trichloroethene	**7.5**	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Trichlorofluoromethane	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Vinyl chloride	ND	5.0	NA	10	B2B0506	02/21/2012	02/21/12 13:05	
Surrogate: 1,2-Dichloroethane-d4	*124 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 13:05*	
Surrogate: 4-Bromofluorobenzene	*92.8 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 13:05*	
Surrogate: Dibromofluoromethane	*119 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 13:05*	
Surrogate: Toluene-d8	*109 %*	*70 - 130*			B2B0506	02/21/2012	*02/21/12 13:05*	

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Lab ID: 1200488-10

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**130**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 22:17	
Surrogate: 1,2-Dichlorobenzene-d4	*74.4 %*	*37 - 93*			B2B0271	02/10/2012	*02/10/12 22:17*	
Surrogate: 2-Fluorobiphenyl	*81.4 %*	*51 - 100*			B2B0271	02/10/2012	*02/10/12 22:17*	
Surrogate: 4-Terphenyl-d14	*97.2 %*	*58 - 113*			B2B0271	02/10/2012	*02/10/12 22:17*	
Surrogate: Nitrobenzene-d5	*86.7 %*	*39 - 95*			B2B0271	02/10/2012	*02/10/12 22:17*	

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Lab ID: 1200488-11

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,1-Dichloroethene	**26**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	

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Lab ID: 1200488-11

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Toluene	**0.52**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Trichloroethene	**3.8**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 04:12	
Surrogate: 1,2-Dichloroethane-d4	*128 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:12*	
Surrogate: 4-Bromofluorobenzene	*92.5 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:12*	
Surrogate: Dibromofluoromethane	*121 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:12*	
Surrogate: Toluene-d8	*109 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:12*	

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Lab ID: 1200488-11

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 22:17	
Surrogate: 1,2-Dichlorobenzene-d4	*71.6 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 22:17*	
Surrogate: 2-Fluorobiphenyl	*79.2 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 22:17*	
Surrogate: 4-Terphenyl-d14	*104 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 22:17*	
Surrogate: Nitrobenzene-d5	*78.7 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 22:17*	

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Lab ID: 1200488-12

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	

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Lab ID: 1200488-12

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 00:49	
Surrogate: 1,2-Dichloroethane-d4	*122 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:49*	
Surrogate: 4-Bromofluorobenzene	*92.9 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:49*	
Surrogate: Dibromofluoromethane	*118 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:49*	
Surrogate: Toluene-d8	*111 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 00:49*	

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Lab ID: 1200488-13

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,1-Dichloroethene	**0.84**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	

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Lab ID: 1200488-13

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:10	
Surrogate: 1,2-Dichloroethane-d4	*125 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:10*	
Surrogate: 4-Bromofluorobenzene	*92.1 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:10*	
Surrogate: Dibromofluoromethane	*118 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:10*	
Surrogate: Toluene-d8	*110 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:10*	

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Lab ID: 1200488-13

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 22:44	
Surrogate: 1,2-Dichlorobenzene-d4	*79.6 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 22:44*	
Surrogate: 2-Fluorobiphenyl	*90.3 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 22:44*	
Surrogate: 4-Terphenyl-d14	*121 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 22:44*	
Surrogate: Nitrobenzene-d5	*77.9 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 22:44*	

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
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Lab ID: 1200488-14

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	

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Lab ID: 1200488-14

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:30	
Surrogate: 1,2-Dichloroethane-d4	*127 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:30*	
Surrogate: 4-Bromofluorobenzene	*93.2 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:30*	
Surrogate: Dibromofluoromethane	*122 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:30*	
Surrogate: Toluene-d8	*110 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:30*	

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Lab ID: 1200488-14

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 23:12	
Surrogate: 1,2-Dichlorobenzene-d4	*79.5 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 23:12*	
Surrogate: 2-Fluorobiphenyl	*87.3 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 23:12*	
Surrogate: 4-Terphenyl-d14	*109 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 23:12*	
Surrogate: Nitrobenzene-d5	*83.6 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 23:12*	

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Lab ID: 1200488-15

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	

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Lab ID: 1200488-15

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 01:50	
Surrogate: 1,2-Dichloroethane-d4	*125 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:50*	
Surrogate: 4-Bromofluorobenzene	*91.6 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:50*	
Surrogate: Dibromofluoromethane	*118 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:50*	
Surrogate: Toluene-d8	*109 %*	*70 - 130*			B2B0500	02/21/2012	*02/21/12 01:50*	

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Lab ID: 1200488-15

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0297	02/13/2012	02/13/12 23:39	
Surrogate: 1,2-Dichlorobenzene-d4	*71.5 %*		*36 - 107*		B2B0297	02/13/2012	*02/13/12 23:39*	
Surrogate: 2-Fluorobiphenyl	*78.2 %*		*42 - 120*		B2B0297	02/13/2012	*02/13/12 23:39*	
Surrogate: 4-Terphenyl-d14	*99.4 %*		*67 - 142*		B2B0297	02/13/2012	*02/13/12 23:39*	
Surrogate: Nitrobenzene-d5	*69.3 %*		*36 - 130*		B2B0297	02/13/2012	*02/13/12 23:39*	

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Lab ID: 1200488-16

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	

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Client Sample ID MW-23

Lab ID: 1200488-16

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:11	
Surrogate: 1,2-Dichloroethane-d4	*126 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:11*	
Surrogate: 4-Bromofluorobenzene	*94.0 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:11*	
Surrogate: Dibromofluoromethane	*121 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:11*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:11*	

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Lab ID: 1200488-17

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	

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Lab ID: 1200488-17

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Toluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:31	
Surrogate: 1,2-Dichloroethane-d4	*126 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:31*	
Surrogate: 4-Bromofluorobenzene	*92.9 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:31*	
Surrogate: Dibromofluoromethane	*119 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:31*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:31*	

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Lab ID: 1200488-17

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0297	02/13/2012	02/14/12 00:06	
Surrogate: 1,2-Dichlorobenzene-d4	*79.2 %*		*36 - 107*		B2B0297	02/13/2012	*02/14/12 00:06*	
Surrogate: 2-Fluorobiphenyl	*85.6 %*		*42 - 120*		B2B0297	02/13/2012	*02/14/12 00:06*	
Surrogate: 4-Terphenyl-d14	*106 %*		*67 - 142*		B2B0297	02/13/2012	*02/14/12 00:06*	
Surrogate: Nitrobenzene-d5	*83.1 %*		*36 - 130*		B2B0297	02/13/2012	*02/14/12 00:06*	

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San Diego , CA 92122	Reported : 02/21/2012

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Lab ID: 1200488-18

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
2-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
4-Chlorotoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Benzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Bromobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Bromodichloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Bromoform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Bromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Carbon tetrachloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Chlorobenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Chloroethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Chloroform	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Chloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	

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Lab ID: 1200488-18

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Dibromochloromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Dibromomethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Ethylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Isopropylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
m,p-Xylene	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Methylene chloride	ND	1.0	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
n-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
n-Propylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Naphthalene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
o-Xylene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
sec-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Styrene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
tert-Butylbenzene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Tetrachloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Toluene	**7.5**	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Trichloroethene	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Vinyl chloride	ND	0.50	NA	1	B2B0500	02/21/2012	02/21/12 02:51	
Surrogate: 1,2-Dichloroethane-d4	*126 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:51*	
Surrogate: 4-Bromofluorobenzene	*92.2 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:51*	
Surrogate: Dibromofluoromethane	*120 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:51*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 02:51*	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID MW-26C

Lab ID: 1200488-18

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	ND	0.20	0.13	1	B2B0297	02/13/2012	02/14/12 00:34	
Surrogate: 1,2-Dichlorobenzene-d4	*69.6 %*		*36 - 107*		B2B0297	02/13/2012	*02/14/12 00:34*	
Surrogate: 2-Fluorobiphenyl	*77.9 %*		*42 - 120*		B2B0297	02/13/2012	*02/14/12 00:34*	
Surrogate: 4-Terphenyl-d14	*102 %*		*67 - 142*		B2B0297	02/13/2012	*02/14/12 00:34*	
Surrogate: Nitrobenzene-d5	*69.8 %*		*36 - 130*		B2B0297	02/13/2012	*02/14/12 00:34*	

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0455 - MSVOAW_LL									
Blank (B2B0455-BLK1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0455 - MSVOAW_LL (continued)									
Blank (B2B0455-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			
LCS (B2B0455-BS1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	20		20.0		99.4	70 - 130			
Benzene	41		40.0		102	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	21		20.0		106	70 - 130			
Toluene	42		40.0		104	70 - 130			
Trichloroethene	21		20.0		106	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*32*		*25.0*		*126*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS Dup (B2B0455-BSD1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	20		20.0		99.2	70 - 130	0.201	20	
Benzene	41		40.0		103	70 - 130	0.880	20	
Chlorobenzene	22		20.0		110	70 - 130	0.363	20	
MTBE	21		20.0		106	70 - 130	0.660	20	
Toluene	42		40.0		106	70 - 130	1.33	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0455 - MSVOAW_LL (continued)									
LCS Dup (B2B0455-BSD1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
Trichloroethene	22		20.0		110	70 - 130	3.42	20	
Surrogate: 1,2-Dichloroethane-d4	*31*		*25.0*		*124*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*110*	*70 - 130*			
Matrix Spike (B2B0455-MS1)		**Source: 1200488-07**		Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	21		20.0	0.66	104	70 - 130			
Benzene	42		40.0	ND	106	70 - 130			
Chlorobenzene	23		20.0	ND	113	70 - 130			
MTBE	21		20.0	ND	103	70 - 130			
Toluene	44		40.0	ND	109	70 - 130			
Trichloroethene	23		20.0	ND	113	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*97.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*113*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			
Matrix Spike Dup (B2B0455-MSD1)		**Source: 1200488-07**		Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	22		20.0	0.66	107	70 - 130	2.67	20	
Benzene	44		40.0	ND	111	70 - 130	4.74	20	
Chlorobenzene	24		20.0	ND	119	70 - 130	5.11	20	
MTBE	24		20.0	ND	119	70 - 130	14.3	20	
Toluene	45		40.0	ND	114	70 - 130	3.93	20	
Trichloroethene	23		20.0	ND	117	70 - 130	3.13	20	
Surrogate: 1,2-Dichloroethane-d4	*31*		*25.0*		*123*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*113*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			
Batch B2B0500 - MSVOAW_LL									
Blank (B2B0500-BLK1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
Blank (B2B0500-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
Blank (B2B0500-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS (B2B0500-BS1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		95.2	70 - 130			
Benzene	40		40.0		99.8	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	20		20.0		101	70 - 130			
Toluene	41		40.0		102	70 - 130			
Trichloroethene	21		20.0		105	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*86.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS (B2B0500-BS2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		91.1	70 - 130			
Benzene	40		40.0		101	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	21		20.0		107	70 - 130			
Toluene	42		40.0		104	70 - 130			
Trichloroethene	21		20.0		107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS Dup (B2B0500-BSD1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		93.2	70 - 130	2.12	20	
Benzene	40		40.0		101	70 - 130	1.39	20	
Chlorobenzene	22		20.0		110	70 - 130	0.319	20	
MTBE	21		20.0		104	70 - 130	3.51	20	

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS Dup (B2B0500-BSD1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
Toluene	42		40.0		105	70 - 130	2.56	20	
Trichloroethene	22		20.0		108	70 - 130	2.67	20	
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			
LCS Dup (B2B0500-BSD2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		90.2	70 - 130	0.993		
Benzene	41		40.0		102	70 - 130	1.35		
Chlorobenzene	22		20.0		111	70 - 130	1.49		
MTBE	22		20.0		110	70 - 130	2.53		
Toluene	42		40.0		105	70 - 130	1.17		
Trichloroethene	22		20.0		108	70 - 130	0.836		
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
Batch B2B0506 - EPA 1311 (ZHE)									
Blank (B2B0506-BLK1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - EPA 1311 (ZHE) (continued)									
Blank (B2B0506-BLK1) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*116*	*70 - 130*			

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - EPA 1311 (ZHE) (continued)									
Blank (B2B0506-BLK1) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			
Blank (B2B0506-BLK2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	5.0			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				
Dichlorodifluoromethane	ND	5.0			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - EPA 1311 (ZHE) (continued)									
Blank (B2B0506-BLK2) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
Ethylbenzene	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	10			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			
LCS (B2B0506-BS1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		97.2	70 - 130			
Benzene	42		40.0		104	70 - 130			
Chlorobenzene	22		20.0		109	70 - 130			
MTBE	22		20.0		112	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	24		20.0		118	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*32*		*25.0*		*127*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*112*	*70 - 130*			
LCS (B2B0506-BS2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	20		20.0		98.0	70 - 130			
Benzene	42		40.0		105	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	22		20.0		111	70 - 130			
Toluene	43		40.0		108	70 - 130			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0506 - EPA 1311 (ZHE) (continued)									
LCS (B2B0506-BS2) - Continued				Prepared: 2/21/2012 Analyzed: 2/21/2012					
Trichloroethene	24		20.0		119	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*113*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*112*	*70 - 130*			
LCS Dup (B2B0506-BSD1)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		94.0	70 - 130	3.24	20	
Benzene	41		40.0		102	70 - 130	1.38	20	
Chlorobenzene	22		20.0		110	70 - 130	0.594	20	
MTBE	22		20.0		112	70 - 130	0.268	20	
Toluene	42		40.0		105	70 - 130	0.900	20	
Trichloroethene	23		20.0		116	70 - 130	1.54	20	
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*122*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*114*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*109*	*70 - 130*			
LCS Dup (B2B0506-BSD2)				Prepared: 2/21/2012 Analyzed: 2/21/2012					
1,1-Dichloroethene	19		20.0		92.6	70 - 130	5.61		
Benzene	41		40.0		102	70 - 130	2.88		
Chlorobenzene	22		20.0		110	70 - 130	1.44		
MTBE	22		20.0		111	70 - 130	0.450		
Toluene	42		40.0		105	70 - 130	2.39		
Trichloroethene	23		20.0		116	70 - 130	2.63		
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*110*	*70 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI									
Blank (B2B0271-BLK1)					Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	ND	2.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*75*		*100*		*75.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*86*		*100*		*85.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*110*		*100*		*106*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.7*	*39 - 95*			
LCS (B2B0271-BS1)					Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	93	2.0	100		93.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*76*		*100*		*76.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*84*		*100*		*84.2*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*96*		*100*		*95.7*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.9*	*39 - 95*			
Matrix Spike (B2B0271-MS1)		**Source: 1200453-02**			Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	110	2.0	100	6.4	102	0 - 200			
Surrogate: 1,2-Dichlorobenzene-d4	*79*		*100*		*78.7*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*89*		*100*		*88.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*97*		*100*		*97.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*100*		*100*		*101*	*39 - 95*			S8
Matrix Spike Dup (B2B0271-MSD1)		**Source: 1200453-02**			Prepared: 2/10/2012 Analyzed: 2/10/2012				
1,4-Dioxane	110	2.0	100	6.4	103	0 - 200	1.19	200	
Surrogate: 1,2-Dichlorobenzene-d4	*74*		*100*		*74.4*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*83*		*100*		*82.9*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*89*		*100*		*89.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*94*		*100*		*93.6*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0297 - MSSEMI_ISOTOPEDILN									
Blank (B2B0297-BLK1)					Prepared: 2/13/2012 Analyzed: 2/13/2012				
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.94*		*1.00*		*94.0*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*1.1*		*1.00*		*108*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.4*		*1.00*		*139*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.93*		*1.00*		*93.1*	*36 - 130*			
LCS (B2B0297-BS1)					Prepared: 2/13/2012 Analyzed: 2/13/2012				
1,4-Dioxane	0.90	0.20	1.00		89.6	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.77*		*1.00*		*77.2*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.90*		*1.00*		*90.0*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*110*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.80*		*1.00*		*79.5*	*36 - 130*			
Matrix Spike (B2B0297-MS1)		**Source: 1200488-07**			Prepared: 2/13/2012 Analyzed: 2/13/2012				
1,4-Dioxane	0.98	0.20	1.00	ND	97.9	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.69*		*1.00*		*69.2*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.77*		*1.00*		*76.7*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*0.94*		*1.00*		*94.2*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.77*		*1.00*		*76.6*	*36 - 130*			
Matrix Spike Dup (B2B0297-MSD1)		**Source: 1200488-07**			Prepared: 2/13/2012 Analyzed: 2/13/2012				
1,4-Dioxane	1.1	0.20	1.00	ND	110	70 - 130	11.6	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.70*		*1.00*		*70.2*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.81*		*1.00*		*81.2*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.0*		*1.00*		*104*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.81*		*1.00*		*81.2*	*36 - 130*			

Hargis & Associates, Inc.		Project Number :	RAYTHEON MAIN, 532.30
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2012

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/9/12 PAGE 1 OF 3

PROJECT NAME	RAYTHEON MATN
PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross
Phone No.	858-455-6500
QA MANAGER	Steve Netto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	DANIEL MORA, Amanda Beam

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MSD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0 - 10	10 - 100	100 - 1,000	> 1,000
1200488-01	MW-06	2/8/12	1805		X			X				X	3		X						
	↓	↓	↓		X							X		1		X					
2	TB-020912	2/9/12	700				X	X				X	2		X			X			
3	MW-15		1003		X			X				X	3		X				X		
4	P-09		1130		X			X				X	3		X				X		
	↓		↓		X							X		1		X	X				
5	MW-08		1320		X			X				X	3		X					X	
	↓		↓		X							X		1		X					
6	P-07		1450		X			X				X	3		X						X
	↓	↓	↓		X							X		1			X				

Total number of Containers per analysis: 4 4

SPECIAL HANDLING: Standard TAT; MS/MSD

LABORATORY INFORMATION: ATL; Attn: Rachelle Arada

REMARKS

Total No. of Containers: 21

Relinquished by:	Date	Time	Company	Received by:	Date	Time	Company
	2/9/12	1720	HHA INC		2/9/12	1720	ATL
	2/9/12	1812	ATL		2/9/12	1812	ATL

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt 2.0, 2.4, 4.1 °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: Courier/Drop Off

Send Results to: Steve Netto

- ☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500
- ☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888
- ☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/9/12 PAGE 2 OF 3

PROJECT NAME	RAYTHEON MAIN	PROJECT No./TASK No.	532.30
PROJECT MANAGER	Chris Ross	Phone No.	858-455-6500
QA MANAGER	Steve Netto	Fax No.	858-455-6533
SAMPLER (SIGNATURE)		SAMPLER (PRINTED)	Elizabeth Bigsby

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0 - 10	10 - 100	100 - 1,000	> 1,000	SPECIAL HANDLING: Standard TAT	MS/MSD	REMARKS
1200486- 7	MW-30A	2/9/12	914		X			X				X	3		X			X				X	X	6 VOAs
"	↓		↓		X							X		1		X						X	X	2 1L Ambers
8	MW-30B		1012		X			X				X	3		X				X			X		
"	↓		↓		X							X		1		X						X		
9	MW-2900		1100		X			X				X	3		X					X		X		
"	↓		↓		X							X		1			X					X		
10	MW-29		1107		X			X				X	3		X					X		X		
"	↓		↓		X							X		1			X					X		
11	MW-31		1319		X			X				X	3		X				X			X		
"	↓		↓		X							X		1		X						X		

Total number of Containers per analysis: 15 5

Total No. of Containers: 21 (28 on P2)

Relinquished by:	Date	Time	Received by:	Date	Time
	2/9/12	1720		2/9/12	1720
Company: HHA			Company: AR		
Relinquished by:	Date	Time	Received by:	Date	Time
	2/9/12	1812		2/9/12	1812
Company: AR			Company: AR		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt _____ °C
- ☐ received good condition/cold
- ☐ conforms to COC document

Shipment Method: ~~Courier~~/~~Drop Off~~

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

LABORATORY INFORMATION: ATL
Attn: Rachelle Arada

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/9/12 PAGE 3 OF 3

PROJECT NAME: RAYTHEON MAIN	PROJECT No./TASK No.: 532.30
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE):	SAMPLER (PRINTED): ERIN HUNTER

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	Lab H20	PRESERVATION: HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS: 40 ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0 - 10	10 - 100	100 - 1,000	> 1,000	SPECIAL HANDLING: Standard TAT	MS/MSD	REMARKS
1200488-12	MW-19	2/9/12	0945		X			X				X	3		X			X				X		
13	MW-28	↓	1012		X			X				X	3		X			X				X		
	↓		↓		X							X		1		X						X		
14	MW-27		1041		X			X				X	3		X			X				X		
	↓		↓		X							X		1		X						X		
15	MW-22		1200		X			X				X	3		X			X				X		
	↓		↓		X							X		1		X						X		
16	MW-23		1330		X			X				X	3		X			X				X		
17	MW-24		1450		X			X				X	3		X			X				X		
	↓		↓		X							X		1		X						X		
18	MW-26C		1715		X			X				X	3		X			X				X		
	↓	↓	↓		X							X		1		X						X		
Total number of Containers per analysis:													21	5									Total No. of Containers: 26	

LABORATORY INFORMATION: ATL
Attn: Rachelle Arada

Relinquished by:	Date	Time	Received by:	Date	Time
	2/9/12	17 20		2/9/12	1726
HHA, INC Company			ATL Company		
	2/9/12	1512		2/9/12	1715
ATL Company			ATL Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt: Temp. @ receipt _____ °C

☐ No. of containers correct ☑ received good condition/cold

☐ custody seals secure ☐ conforms to COC document

Shipment Method: Courier/Drop Off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888

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Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

Rachelle Arada

From: Amanda Beam [ABeam@HARGIS.COM]
Sent: Thursday, February 16, 2012 2:15 PM
To: Rachelle Arada
Cc: Carmen Aguila; customer.relations
Subject: RE: Hold on analysis from 2/9/12

Rachelle,

If you could please exclude the 1,4-dioxane results for MW-06 in the report I would appreciate it. I thought it was probably too late for the analysis, but wanted to try just in case.

Thanks,
Amanda

From: Rachelle Arada [mailto:rachelle@atlglobal.com]
Sent: Thursday, February 16, 2012 2:07 PM
To: Amanda Beam
Cc: Carmen Aguila; customer.relations
Subject: RE: Hold on analysis from 2/9/12

Hi Amanda,

The sample was already analyzed for 8270 SIM. I can exclude it in the report.

Rachelle

From: Amanda Beam [mailto:ABeam@HARGIS.COM]
Sent: Thursday, February 16, 2012 1:00 PM
To: Carmen Aguila
Cc: Rachelle Arada
Subject: Hold on analysis from 2/9/12

Hi Carmen,

Upon review of my field notes I caught a sample that was turned in to you last Thursday that did not need to be analyzed for. It is the 1,4-dioxane 8270 SIM for MW-06 collected on 2/8 at 18:05. Is it too late to request that this sample be held rather than analyzed? If it has already been prepared but not ran there is no need to include it in the analysis or the report. If you need more documentation from me about this please let me know or feel free to call me.

I apologize for the confusion.

Thank you,

Amanda Beam
Hydrogeologist

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, California 92122
ph: 858-455-6500 ext. 145
fax: 858-410-7440

abeam@hargis.com

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Certificate of Analysis

February 1, 2012

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No: 136847
Purchase Order: 532.03
Project Name: Raytheon Main
Samples Received: Seven (7) Sample(s)
Date Received: 01/13/2012

KT

Analysis	Page
Volatile Organics by EPA 624/8260B	2 - 6
1,4-Dioxane by Modified EPA 8270	7

Patricia Metzger
Senior Chemist

Samina N. Hussain
Senior Chemist

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-36

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	2	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-36 (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	4	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 01-27-12
Date analyzed: 01-27-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	92	94
1,2-Dichloroethane-d_4	82-121	93	97
Toluene-d_8	87-110	98	100
Bromofluorobenzene	76-113	98	100

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-011312A

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	ND	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-011312A (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 01-27-12
Date analyzed: 01-27-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	94	94
1,2-Dichloroethane-d_4	82-121	93	97
Toluene-d_8	87-110	101	100
Bromofluorobenzene	76-113	99	100

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EXOVA

Quality Control Summary

Batch ID: 012712WV

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Benzene	ND	50.0	49.3	99	46.4	93	6
Chlorobenzene	ND	50.0	49.5	99	47.3	95	5
1,1-Dichloroethylene	2.6	50.0	52.2	99	48.8	92	7
Toluene	3.2	50.0	58.0	110	55.4	104	5
Trichloroethylene	ND	50.0	45.9	92	43.4	87	6

Quality Control Limits

Compound	% Recovery	RPD
Benzene	77-127	10
Chlorobenzene	80-116	9
1,1-Dichloroethylene	66-125	11
Toluene	81-118	10
Trichloroethylene	72-119	11

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EXOVA

1,4-Dioxane by Modified EPA 8270
Gas Chromatography/Mass Spectrometry

Sample ID	Parts Per Billion (µg/L)
MW-36	ND
Method Blank	ND
Detection Limit	1

Date Extracted: 01-18-12
Dates Analyzed: 01-27-12

Quality Control Summary

Sample ID: 011812WB

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
1,4-Dioxane	ND	20.5	19.1	93	20.1	98	5

Quality Control Guidelines

Analyte	% Recovery	RPD
1,4-Dioxane	85-113	NMT 11

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HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 1/13/12 PAGE 1 OF 1

PROJECT NAME Raymond Main	**PROJECT No./TASK No.** 532
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Nitto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Amanda Beam, DANIEL MORA

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Other (Air)	PRESERVATION: HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS: 40 mL VOA / 1 L Amber	ANALYSIS REQUESTED: 8260B VOCs; 8270D SIM 1,4-Dioxane; 8270D MOD 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10 / 10-100 / 100-1000 / 1000-10,000	SPECIAL HANDLING: Standard turnaround	LABORATORY INFORMATION: A; EXOVA	REMARKS
	TB-011312A	1/13/12	800				X	X				X	3	X	X	X		
	MW-36	1/13/12	1217		X			X				X	3	X	X	X		
	MW-36	↓	1217		X							X	1		X	X		

Total number of Containers per analysis: 6 1

Total No. of Containers: 7

Relinquished by:	Date 1/13/12	Received by:	Date
HAING	Time 1521		Time
Company		Company	
Relinquished by:	Date	Received by:	Date 01-13-12
Company	Time	Company	Time 1521

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☑ No. of containers correct
- ☐ custody seals secure

Temp. @ receipt 2 °C

- ☐ received good condition/cold
- ☑ conforms to COC document

Shipment Method: Drop off
Send Results to: Steve Nitto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

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Attn: Accounts Payable

136847

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

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January 31, 2012

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No: 137147
Purchase Order: 532.18
Project Name: Raytheon Main
Samples Received: One (1) Sample
Date Received: 01/26/2012

AMM

Analysis	Page
Hexavalent Chromium by EPA 7199	2

Michael Shelton
Technical Director

Lorraine Shelton
Quality Assurance Officer

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EXOVA

Hexavalent Chromium by EPA 7199
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Sample preparation and analysis: The sample was analyzed undiluted with a single injection. A matrix spike and spike duplicate were prepared from the sample and also analyzed with single injections.

Parts Per Billion (µg/L)

Sample ID	Result
MW-36	ND
Method Blank	ND
Detection Limit:	0.02

Date Analyzed: 01-27-12

The sample was analyzed within 24 hours of sampling.

Quality Control Summary

Sample ID: MW-36

Analyte	Sample Result	Spike Conc	Spike Result	Spike Rec %	Dup Spike Result	Dup Spike Rec %	Spike RPD
Hexavalent Chromium	ND	0.50	0.54	108	0.54	108	0
QC Guidelines				74-117		74-117	NMT 13

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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 1/26/12 PAGE 1 OF 1

PROJECT NAME: Raytheon Main	PROJECT No./TASK No.: 532.18
PROJECT MANAGER: Chris Ross	Phone No.: 858-455-6500
QA MANAGER: Steve Netto	Fax No.: 858-455-6533
SAMPLER (SIGNATURE): Amanda Braun / DANIEL MORA	SAMPLER (PRINTED): Amanda Braun / DANIEL MORA

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	MATRIX: Ground-water	MATRIX: Surface water	PRESERVATION: HCl	PRESERVATION: HNO_3	PRESERVATION: NaOH	PRESERVATION: H_2SO_4	PRESERVATION: Ice	SAMPLE CONTAINERS: 8oz PLY, UNPRESERVED	ANALYSIS REQUESTED: Cr6+ 7199 (DL 0.2ug/L)	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S	SPECIAL HANDLING: Filter in Lab	SPECIAL HANDLING: 24 HR HOLD	LABORATORY INFORMATION	REMARKS
	MW-36	1/26/12	1123		X						X	2	X		X	X	Exova	
															X	X		amb

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February 8, 2012

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No: 137148
Purchase Order: 532.03
Project Name: Raytheon Main
Samples Received: Seven (7) Sample(s)
Date Received: 01/26/2012

KT

Analysis	Page
Volatile Organics by EPA 624/8260B	2 - 6
1,4-Dioxane by Modified EPA 8270	7

Michael Shelton
Technical Director

Patricia Metzger
Senior Chemist

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-36

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	3	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-36 (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	3	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 01-27-12
Date analyzed: 01-27-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	94	94
1,2-Dichloroethane-d_4	82-121	94	97
Toluene-d_8	87-110	99	100
Bromofluorobenzene	76-113	100	100

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-012612A

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	ND	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-012612A (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 01-27-12
Date analyzed: 01-27-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	91	94
1,2-Dichloroethane-d_4	82-121	91	97
Toluene-d_8	87-110	98	100
Bromofluorobenzene	76-113	102	100

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Quality Control Summary

Sample ID: MW-36

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Benzene	ND	50.0	49.3	99	46.4	93	6
Chlorobenzene	ND	50.0	49.5	99	47.3	95	5
1,1-Dichloroethylene	2.6	50.0	52.2	99	48.8	92	7
Toluene	3.2	50.0	58.0	110	55.4	104	5
Trichloroethylene	ND	50.0	45.9	92	43.4	87	6

Quality Control Limits

Compound	% Recovery	RPD
Benzene	77-127	10
Chlorobenzene	80-116	9
1,1-Dichloroethylene	66-125	11
Toluene	81-118	10
Trichloroethylene	72-119	11

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EXOVA

1,4-Dioxane by Modified EPA 8270
Gas Chromatography/Mass Spectrometry

Sample ID	Parts Per Billion (µg/L)
MW-36	ND
Method Blank	ND
Detection Limit	1

Date Extracted: 01-31-12
Dates Analyzed: 02-03-12

Quality Control Summary

Sample ID: 013112WB

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
1,4-Dioxane	ND	20.5	20.4	100	20.3	99	0

Quality Control Guidelines

Analyte	% Recovery	RPD
1,4-Dioxane	85 - 113	NMT 11

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HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 11/26/12 PAGE 1 OF 1

PROJECT NAME: Raytheon Main	PROJECT No./TASK No.: ~~532.30~~ AMB 532.03
PROJECT MANAGER: Chris Ross	Phone No.: 858 455 6500
QA MANAGER: Steve Netto	Fax No.: 858 455-6533
SAMPLER (SIGNATURE): Amanda Beam / Daniel Mora	SAMPLER (PRINTED): Amanda Beam / DANIEL MORA

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	SAMPLE COLLECTION Time	MATRIX: Soil	Ground-water	Surface water	AIR Hg	PRESERVATION: HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS: 40ml VOA	1 L Amber	ANALYSIS REQUESTED: 8260 VOCs	8270 SIM 1,4-Dioxane	8270 Mod 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING	LABORATORY INFORMATION / REMARKS
																							Eurofins
~3	TB-112612A	11/26/12	800				X	X				X	3		X								Standard turn around time
~3	MW-36	↓	1123		X			X				X	3		X			X					
~	MW-36	↓	1123		X							X		1		X							
Total number of Containers per analysis:													6	1								Total No. of Containers: 7	

Relinquished by:	Date	Received by:	Date
[signature]	11/26/12	[signature]	
HHA Inc	Time 1103	Eurofins	Time
Company		Company	
Relinquished by:	Date	Received by:	Date
	Time		Time
Company		Company	

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☑ No. of containers correct
- ☐ custody seals secure
- Temp. @ receipt 9 °C
- ☑ received good condition/cold
- ☑ conforms to COC document

Shipment Method: Drop off

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego CA
Attn: Accounts Payable

137148

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

Exova
9240 Santa Fe Springs Road
Santa Fe Springs
California
USA
90670

T: +1 (562) 948-2225
F: +1 (562) 948-5850
E: info400@exova.com
W: www.exova.com

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Certificate of Analysis

March 5, 2012

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Attn: Steve Netto

Exova Job No: 137499
Purchase Order: 532.30
Project Name: Raytheon Main
Samples Received: Eighteen (18) Sample(s)
Date Received: 02/09/2012

KT

Analysis	Page
Volatile Organics by EPA 624/8260B	2 - 12
1,4-Dioxane by Modified EPA 8270	13

Michael Shelton
Technical Director

Patricia Metzger
Senior Chemist

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Volatile Organics by EPA 624/8260B

Sample: MW-29

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	5	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	380	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-29 (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	1	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	2	1	ND	1
Trichloroethylene	4	1	ND	1
Trichlorofluoromethane	1	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 02-13-12
Date analyzed: 02-13-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	94	89
1,2-Dichloroethane-d_4	82-121	87	87
Toluene-d_8	87-110	113**	99
Bromofluorobenzene	76-113	95	103

** Surrogate recovery is outside the control limits due to a sample matrix effect. No aromatic compounds were detected in the sample; no action taken.

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-30B

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	8	1	ND	1
cis-1,2-Dichloroethylene	3	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-30B (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	53	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 02-13-12
Date analyzed: 02-13-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	91	89
1,2-Dichloroethane-d_4	82-121	94	87
Toluene-d_8	87-110	97	99
Bromofluorobenzene	76-113	102	103

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-34B

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	3	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	250	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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Volatile Organics by EPA 624/8260B

Sample: MW-34B (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	1	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 02-13-12
Date analyzed: 02-13-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	92	89
1,2-Dichloroethane-d_4	82-121	91	87
Toluene-d_8	87-110	100	99
Bromofluorobenzene	76-113	101	103

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-36

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	2	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: MW-36 (continued)

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	3	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 02-13-12
Date analyzed: 02-14-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	91	89
1,2-Dichloroethane-d_4	82-121	91	87
Toluene-d_8	87-110	100	99
Bromofluorobenzene	76-113	103	103

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Volatile Organics by EPA 624/8260B

Sample: TB-020812A

Parts Per Billion (µg/L)

Compound	Result	Detection Limit	Blank Result	Detection Limit
Acetone	ND	5	ND	5
tert-Amyl Methyl Ether	ND	1	ND	1
Benzene	ND	1	ND	1
Bromodichloromethane	ND	1	ND	1
Bromoform	ND	1	ND	1
Bromomethane	ND	5	ND	5
2-Butanone (MEK)	ND	2	ND	2
tert-Butyl Alcohol	ND	5	ND	5
tert-Butyl Ethyl Ether	ND	1	ND	1
Carbon Disulfide	ND	1	ND	1
Carbon Tetrachloride	ND	1	ND	1
Chlorobenzene	ND	1	ND	1
Chloroethane	ND	1	ND	1
Chloroform	ND	1	ND	1
Chloromethane	ND	2	ND	2
2-Chlorotoluene	ND	1	ND	1
4-Chlorotoluene	ND	1	ND	1
Dibromochloromethane	ND	1	ND	1
1,2-Dichlorobenzene	ND	1	ND	1
1,3-Dichlorobenzene	ND	1	ND	1
1,4-Dichlorobenzene	ND	1	ND	1
1,1-Dichloroethane	ND	1	ND	1
1,2-Dichloroethane	ND	1	ND	1
1,1-Dichloroethylene	ND	1	ND	1
cis-1,2-Dichloroethylene	ND	1	ND	1
trans-1,2-Dichloroethylene	ND	1	ND	1
1,2-Dichloropropane	ND	1	ND	1
cis-1,3-Dichloropropene	ND	1	ND	1
trans-1,3-Dichloropropene	ND	1	ND	1
Diisopropyl Ether	ND	1	ND	1
Ethylbenzene	ND	1	ND	1
Ethylene Dibromide	ND	1	ND	1
Freon-TF	ND	1	ND	1
2-Hexanone	ND	1	ND	1
Methylene Chloride	ND	5	ND	5
4-Methyl-2-Pentanone (MIBK)	ND	1	ND	1
Methyl t-Butyl Ether	ND	2	ND	2
Styrene	ND	1	ND	1

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EXOVA

Volatile Organics by EPA 624/8260B

Sample: TB-020812A (continued)

	Parts Per Billion (µg/L)			
Compound	Result	Detection Limit	Blank Result	Detection Limit
1,1,2,2-Tetrachloroethane	ND	1	ND	1
Tetrachloroethylene	ND	1	ND	1
Tetrahydrofuran	ND	1	ND	1
Toluene	ND	1	ND	1
1,1,1-Trichloroethane	ND	1	ND	1
1,1,2-Trichloroethane	ND	1	ND	1
Trichloroethylene	ND	1	ND	1
Trichlorofluoromethane	ND	1	ND	1
Vinyl Chloride	ND	1	ND	1
m/p-Xylenes	ND	1	ND	1
o-Xylene	ND	1	ND	1

Date extracted: 02-13-12
Date analyzed: 02-13-12

Surrogate	QC Limits	Sample Percent Recovery	Blank Percent Recovery
Dibromofluoromethane	75-125	89	89
1,2-Dichloroethane-d_4	82-121	88	87
Toluene-d_8	87-110	104	99
Bromofluorobenzene	76-113	98	103

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EXOVA

Quality Control Summary

Sample ID: MW-34B

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Dup Result	Spike Dup % Rec	Spike RPD
Benzene	ND	50.0	46.1	92	46.9	94	2
Chlorobenzene	ND	50.0	45.7	91	47.2	94	3
1,1-Dichloroethylene	245	50.0	295*	NR	309*	NR	5
Toluene	ND	50.0	45.5	91	47.3	95	4
Trichloroethylene	ND	50.0	45.8	92	46.4	93	1

* Results are outside of the calibration range.
NR - Not Reported; the sample result exceeds the amount spiked. Spike recovery in a lab fortified blank demonstrated acceptable 1,1-dichloroethylene recovery:

Batch ID: 021312WL

Compound	Sample Result	Spike Conc	Spike Result	Spike % Rec
1,1-Dichloroethylene	ND	50.0	43.9	88

Quality Control Limits

Compound	% Recovery	RPD
Benzene	77-127	10
Chlorobenzene	80-116	9
1,1-Dichloroethylene	66-125	11
Toluene	81-118	10
Trichloroethylene	72-119	11

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EXOVA

1,4-Dioxane by Modified EPA 8270
Gas Chromatography/Mass Spectrometry

Sample ID	Parts Per Billion (µg/L)
MW-29	340
MW-29 Replicate	330
MW-30B	ND
MW-34B	190
MW-36	ND
Method Blank	ND
Detection Limit	1

Date Extracted: 02-15-12
Dates Analyzed: 02-29-12, 03-01-12

Quality Control Summary

Sample ID: 021512WB

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec
1,4-Dioxane	ND	20.5	20.1	98

Quality Control Guidelines

Analyte	% Recovery
1,4-Dioxane	85 - 113

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CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/8/12 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
RAYTHEON MAIN	532.30
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Hetta	**Fax No.** 858-455-6523
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Elizabeth Bigsby

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H2O	PRESERVATION HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS 40 ml VOA	L Amber	ANALYSIS REQUESTED 8260 VOCs	8270 SIM 1,4-Dioxane	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0 - 10	10 - 100	100 - 1,000	> 1,000	SPECIAL HANDLING Standard TAT	LABORATORY INFORMATION / REMARKS
	TB-020812A	2/8/12	1300				X	X				X	2		X		X					
	MW-36		1449		X			X				X	3		X							
	↓		↓		X							X		1		X						
	MW-34B		~~1430~~ 1446		X			X				X	3		X							1446 Acquisition Time
	↓		↓		X							X		1		X						
	MW-30B		1012		X			X				X	3		X			X				
	↓		↓		X							X		1		X						
	MW-29		1107		X			X				X	3		X				X			
	↓	↓	↓		X							X		1		X						

Total number of Containers per analysis: 4 4

Total No. of Containers: _____

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	2/9/12	1455	[signature]	2/9/12	1455
HHA / Company			Exova / Company		
Relinquished by:	Date	Time	Received by:	Date	Time
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☑ No. of containers correct
- ☐ custody seals secure
- **Temp. @ receipt** 6 °C
- ☑ received good condition/cold
- ☑ conforms to COC document

Shipment Method: Courier/UPS ART

Send Results to: Steve Hetta

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

137499

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM ANALYTICAL RESULTS

ADVANCED TECHNOLOGY LABORATORIES

January 23, 2012

ACCREDITED IN ACCORDANCE WITH nelac

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200049

Client Reference : Raytheon Fullerton Monthly, 532.15

Enclosed are the results for sample(s) received on January 06, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez

Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-010612	1200049-01	Lab H2O	1/06/12 7:00	1/06/12 11:48
INF	1200049-02	Groundwater	1/06/12 8:00	1/06/12 11:48
PF	1200049-03	Groundwater	1/06/12 8:15	1/06/12 11:48
POX	1200049-04	Groundwater	1/06/12 8:25	1/06/12 11:48
CBT	1200049-05	Groundwater	1/06/12 8:30	1/06/12 11:48
CEFF	1200049-06	Groundwater	1/06/12 9:05	1/06/12 11:48
MW-21	1200049-07	Groundwater	1/06/12 7:40	1/06/12 11:48
EW-02	1200049-08	Groundwater	1/06/12 9:15	1/06/12 11:48

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

Client Sample ID TB-010612

Lab ID: 1200049-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,1-Dichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,1-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
2-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
4-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
4-Isopropyltoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Benzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Bromobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Bromodichloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Bromoform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Bromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Carbon tetrachloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Chlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Chloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Chloroform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Chloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

Client Sample ID TB-010612

Lab ID: 1200049-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Dibromochloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Dibromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Ethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Isopropylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
m,p-Xylene	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Methylene chloride	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
n-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
n-Propylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Naphthalene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
o-Xylene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
sec-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Styrene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
tert-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Tetrachloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Toluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Trichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Vinyl chloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 19:55	
Surrogate: 1,2-Dichloroethane-d4	*108 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 19:55*	
Surrogate: 4-Bromofluorobenzene	*88.3 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 19:55*	
Surrogate: Dibromofluoromethane	*109 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 19:55*	
Surrogate: Toluene-d8	*108 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 19:55*	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

Client Sample ID INF

Lab ID: 1200049-02

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**1.4**	0.05	NA	1	B2A0301	01/11/2012	01/11/12 08:50	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**760**	10	10	1	B2A0300	01/09/2012	01/10/12 09:00	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B2A0308	01/11/2012	01/11/12 14:00	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,1-Dichloroethane	**4.0**	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,1-Dichloroethene	**450**	25	NA	50	B2A0387	01/12/2012	01/15/12 18:38	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2-Dichloroethane	**0.58**	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

Client Sample ID INF

Lab ID: 1200049-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
2-Chlorotoluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
4-Chlorotoluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
4-Isopropyltoluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Benzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Bromobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Bromodichloromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Bromoform	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Bromomethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Carbon tetrachloride	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Chlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Chloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Chloroform	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Chloromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Dibromochloromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Dibromomethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Ethylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Isopropylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
m,p-Xylene	ND	1.0	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Methylene chloride	ND	1.0	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
n-Butylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
n-Propylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Naphthalene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
o-Xylene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
sec-Butylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Styrene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
tert-Butylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Tetrachloroethene	**1.2**	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

Client Sample ID INF

Lab ID: 1200049-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Toluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Trichloroethene	**4.3**	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Vinyl chloride	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:20	
Surrogate: 1,2-Dichloroethane-d4	*102 %*	*70 - 130*			B2A0387	01/12/2012	*01/15/12 18:38*	
Surrogate: 1,2-Dichloroethane-d4	*114 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:20*	
Surrogate: 4-Bromofluorobenzene	*88.1 %*	*70 - 130*			B2A0387	01/12/2012	*01/15/12 18:38*	
Surrogate: 4-Bromofluorobenzene	*97.1 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:20*	
Surrogate: Dibromofluoromethane	*106 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:20*	
Surrogate: Dibromofluoromethane	*103 %*	*70 - 130*			B2A0387	01/12/2012	*01/15/12 18:38*	
Surrogate: Toluene-d8	*102 %*	*70 - 130*			B2A0387	01/12/2012	*01/15/12 18:38*	
Surrogate: Toluene-d8	*104 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:20*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**42**	2.0	1.7	1	B2A0275	01/10/2012	01/10/12 18:51	
Surrogate: 1,2-Dichlorobenzene-d4	*64.3 %*	*37 - 93*			B2A0275	01/10/2012	*01/10/12 18:51*	
Surrogate: 2-Fluorobiphenyl	*72.1 %*	*51 - 100*			B2A0275	01/10/2012	*01/10/12 18:51*	
Surrogate: 4-Terphenyl-d14	*92.0 %*	*58 - 113*			B2A0275	01/10/2012	*01/10/12 18:51*	
Surrogate: Nitrobenzene-d5	*74.8 %*	*39 - 95*			B2A0275	01/10/2012	*01/10/12 18:51*	

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Lab ID: 1200049-03

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B2A0308	01/11/2012	01/11/12 14:00	

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Client Sample ID POX
Lab ID: 1200049-04

Anions by Ion Chromatography EPA 300.0 **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**1.5**	0.05	NA	1	B2A0301	01/11/2012	01/11/12 09:02	

Total Dissolved Solids (Residue, Filterable) by SM 2540C **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**780**	10	10	1	B2A0300	01/09/2012	01/10/12 09:00	

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,1,2-Trichloroethane	**0.98**	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,1-Dichloroethane	**3.9**	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,1-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
2-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
4-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	

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Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Benzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Bromobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Bromodichloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Bromoform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Bromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Carbon tetrachloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Chlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Chloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Chloroform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Chloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Dibromochloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Dibromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Ethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Isopropylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
m,p-Xylene	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Methylene chloride	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
n-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
n-Propylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Naphthalene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
o-Xylene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
sec-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Styrene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
tert-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Tetrachloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Toluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Trichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	
Vinyl chloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:15	

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Lab ID: 1200049-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*108 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:15*	
Surrogate: 4-Bromofluorobenzene	*86.5 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:15*	
Surrogate: Dibromofluoromethane	*108 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:15*	
Surrogate: Toluene-d8	*102 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:15*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**1.1**	0.20	0.13	1	B2A0276	01/10/2012	01/10/12 19:07	
Surrogate: 1,2-Dichlorobenzene-d4	*75.0 %*		*58 - 99*		B2A0276	01/10/2012	*01/10/12 19:07*	
Surrogate: 2-Fluorobiphenyl	*91.8 %*		*60 - 104*		B2A0276	01/10/2012	*01/10/12 19:07*	
Surrogate: 4-Terphenyl-d14	*111 %*		*65 - 127*		B2A0276	01/10/2012	*01/10/12 19:07*	
Surrogate: Nitrobenzene-d5	*72.8 %*		*50 - 136*		B2A0276	01/10/2012	*01/10/12 19:07*	

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Lab ID: 1200049-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,1-Dichloroethane	**3.8**	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,1-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
2-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
4-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
4-Isopropyltoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Benzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Bromobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Bromodichloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Bromoform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Bromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Carbon tetrachloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Chlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Chloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Chloroform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Chloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	

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Lab ID: 1200049-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Dibromochloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Dibromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Ethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Isopropylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
m,p-Xylene	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Methylene chloride	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
n-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
n-Propylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Naphthalene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
o-Xylene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
sec-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Styrene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
tert-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Tetrachloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Toluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Trichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Vinyl chloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:35	
Surrogate: 1,2-Dichloroethane-d4	*107 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:35*	
Surrogate: 4-Bromofluorobenzene	*86.3 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:35*	
Surrogate: Dibromofluoromethane	*107 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:35*	
Surrogate: Toluene-d8	*107 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:35*	

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Lab ID: 1200049-06

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**1.4**	0.05	NA	1	B2A0301	01/11/2012	01/11/12 09:13	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**770**	10	10	1	B2A0300	01/09/2012	01/10/12 09:00	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,1-Dichloroethane	**3.2**	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,1-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
2-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
4-Chlorotoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	

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Lab ID: 1200049-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Benzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Bromobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Bromodichloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Bromoform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Bromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Carbon tetrachloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Chlorobenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Chloroethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Chloroform	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Chloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Dibromochloromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Dibromomethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Ethylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Isopropylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
m,p-Xylene	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Methylene chloride	ND	1.0	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
n-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
n-Propylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Naphthalene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
o-Xylene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
sec-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Styrene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
tert-Butylbenzene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Tetrachloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Toluene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Trichloroethene	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	
Vinyl chloride	ND	0.50	NA	1	B2A0288	01/12/2012	01/12/12 20:56	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

Client Sample ID CEFF

Lab ID: 1200049-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:56*	
Surrogate: 4-Bromofluorobenzene	*84.4 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:56*	
Surrogate: Dibromofluoromethane	*107 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:56*	
Surrogate: Toluene-d8	*106 %*		*70 - 130*		B2A0288	01/12/2012	*01/12/12 20:56*	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

Client Sample ID MW-21

Lab ID: 1200049-07

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**3.5**	0.10	NA	2	B2A0301	01/11/2012	01/11/12 10:21	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**1200**	12	12	1	B2A0300	01/09/2012	01/10/12 09:00	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B2A0308	01/11/2012	01/11/12 14:00	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,1,1-Trichloroethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,1,2,2-Tetrachloroethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,1,2-Trichloroethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,1-Dichloroethane	**15**	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,1-Dichloroethene	**1400**	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,1-Dichloropropene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2,3-Trichloropropane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2,3-Trichlorobenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2,4-Trichlorobenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2,4-Trimethylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2-Dibromo-3-chloropropane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2-Dibromoethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2-Dichlorobenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2-Dichloroethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,2-Dichloropropane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,3,5-Trimethylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	

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Lab ID: 1200049-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,3-Dichloropropane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
1,4-Dichlorobenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
2,2-Dichloropropane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
2-Chlorotoluene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
4-Chlorotoluene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
4-Isopropyltoluene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Benzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Bromobenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Bromodichloromethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Bromoform	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Bromomethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Carbon tetrachloride	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Chlorobenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Chloroethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Chloroform	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Chloromethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
cis-1,2-Dichloroethene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
cis-1,3-Dichloropropene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Dibromochloromethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Dibromomethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Dichlorodifluoromethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Ethylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Hexachlorobutadiene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Isopropylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
m,p-Xylene	ND	20	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Methylene chloride	ND	20	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
n-Butylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
n-Propylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Naphthalene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
o-Xylene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
sec-Butylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Styrene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
tert-Butylbenzene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	

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Lab ID: 1200049-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Toluene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
trans-1,2-Dichloroethene	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Trichloroethene	**13**	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Trichlorofluoromethane	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Vinyl chloride	ND	10	NA	20	B2A0388	01/16/2012	01/16/12 11:11	
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*70 - 130*		B2A0388	01/16/2012	*01/16/12 11:11*	
Surrogate: 4-Bromofluorobenzene	*89.4 %*		*70 - 130*		B2A0388	01/16/2012	*01/16/12 11:11*	
Surrogate: Dibromofluoromethane	*104 %*		*70 - 130*		B2A0388	01/16/2012	*01/16/12 11:11*	
Surrogate: Toluene-d8	*99.9 %*		*70 - 130*		B2A0388	01/16/2012	*01/16/12 11:11*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**120**	2.0	1.7	1	B2A0275	01/10/2012	01/10/12 19:20	
Surrogate: 1,2-Dichlorobenzene-d4	*66.3 %*		*37 - 93*		B2A0275	01/10/2012	*01/10/12 19:20*	
Surrogate: 2-Fluorobiphenyl	*76.9 %*		*51 - 100*		B2A0275	01/10/2012	*01/10/12 19:20*	
Surrogate: 4-Terphenyl-d14	*93.3 %*		*58 - 113*		B2A0275	01/10/2012	*01/10/12 19:20*	
Surrogate: Nitrobenzene-d5	*78.6 %*		*39 - 95*		B2A0275	01/10/2012	*01/10/12 19:20*	

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Lab ID: 1200049-08

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.80**	0.05	NA	1	B2A0301	01/11/2012	01/11/12 09:36	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**640**	10	10	1	B2A0300	01/09/2012	01/10/12 09:00	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B2A0308	01/11/2012	01/11/12 14:00	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,1-Dichloroethane	**0.53**	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,1-Dichloroethene	**85**	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,1-Dichloropropene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2-Dibromoethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2-Dichloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,2-Dichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	

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Lab ID: 1200049-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,3-Dichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
2,2-Dichloropropane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
2-Chlorotoluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
4-Chlorotoluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
4-Isopropyltoluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Benzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Bromobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Bromodichloromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Bromoform	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Bromomethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Carbon tetrachloride	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Chlorobenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Chloroethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Chloroform	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Chloromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Dibromochloromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Dibromomethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Dichlorodifluoromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Ethylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Hexachlorobutadiene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Isopropylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
m,p-Xylene	ND	1.0	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Methylene chloride	ND	1.0	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
n-Butylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
n-Propylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Naphthalene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
o-Xylene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
sec-Butylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Styrene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
tert-Butylbenzene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	

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Client Sample ID EW-02

Lab ID: 1200049-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Toluene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Trichloroethene	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Trichlorofluoromethane	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Vinyl chloride	ND	0.50	NA	1	B2A0256	01/10/2012	01/10/12 22:40	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:40*	
Surrogate: 4-Bromofluorobenzene	*97.4 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:40*	
Surrogate: Dibromofluoromethane	*112 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:40*	
Surrogate: Toluene-d8	*106 %*	*70 - 130*			B2A0256	01/10/2012	*01/10/12 22:40*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: JD**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**15**	2.0	1.7	1	B2A0275	01/10/2012	01/10/12 19:48	
Surrogate: 1,2-Dichlorobenzene-d4	*65.3 %*	*37 - 93*			B2A0275	01/10/2012	*01/10/12 19:48*	
Surrogate: 2-Fluorobiphenyl	*76.5 %*	*51 - 100*			B2A0275	01/10/2012	*01/10/12 19:48*	
Surrogate: 4-Terphenyl-d14	*92.5 %*	*58 - 113*			B2A0275	01/10/2012	*01/10/12 19:48*	
Surrogate: Nitrobenzene-d5	*76.3 %*	*39 - 95*			B2A0275	01/10/2012	*01/10/12 19:48*	

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QUALITY CONTROL SECTION

Anions by Ion Chromatography EPA 300.0 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0301 - No_Prep_IC_1									
Blank (B2A0301-BLK1)				Prepared: 1/11/2012 Analyzed: 1/11/2012					
Bromide	ND	0.05			NR				
LCS (B2A0301-BS1)				Prepared: 1/11/2012 Analyzed: 1/11/2012					
Bromide	1.0	0.05	1.00		100	90 - 110			
Matrix Spike (B2A0301-MS1)		**Source: 1200049-02**		Prepared: 1/11/2012 Analyzed: 1/11/2012					
Bromide	4.1	0.05	2.50	1.4	107	80 - 120			
Matrix Spike Dup (B2A0301-MSD1)		**Source: 1200049-02**		Prepared: 1/11/2012 Analyzed: 1/11/2012					
Bromide	4.1	0.05	2.50	1.4	108	80 - 120	0.6	20	

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Total Dissolved Solids (Residue, Filterable) by SM 2540C - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0300 - No_Prep_WC_1									
Blank (B2A0300-BLK1)				Prepared: 1/9/2012 Analyzed: 1/10/2012					
Residue, Dissolved	ND	10			NR				
LCS (B2A0300-BS1)				Prepared: 1/9/2012 Analyzed: 1/10/2012					
Residue, Dissolved	1000	10	970		104	80 - 120			
Duplicate (B2A0300-DUP1)		**Source: 1200013-02**		Prepared: 1/9/2012 Analyzed: 1/10/2012					
Residue, Dissolved	490	10		490	NR		2	10	

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Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0308 - No_Prep_WC_1									
Blank (B2A0308-BLK1)				Prepared: 1/11/2012 Analyzed: 1/11/2012					
Residue, Suspended	ND	10			NR				
LCS (B2A0308-BS1)				Prepared: 1/11/2012 Analyzed: 1/11/2012					
Residue, Suspended	97	10	96.6		100	80 - 120			
Duplicate (B2A0308-DUP1)		**Source: 1200056-01**		Prepared: 1/11/2012 Analyzed: 1/11/2012					
Residue, Suspended	2400	100		2300	NR		5	10	

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0256 - MSVOAW_LL									
Blank (B2A0256-BLK1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0256 - MSVOAW_LL (continued)									
Blank (B2A0256-BLK1) - Continued				Prepared: 1/10/2012 Analyzed: 1/10/2012					
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*113*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*25*		*25.0*		*99.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*110*	*70 - 130*			
LCS (B2A0256-BS1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,1-Dichloroethene	22	0.50	20.0		112	70 - 130			
Benzene	42	0.50	40.0		106	70 - 130			
Chlorobenzene	22	0.50	20.0		108	70 - 130			
MTBE	23	0.50	20.0		115	70 - 130			
Toluene	44	0.50	40.0		109	70 - 130			
Trichloroethene	24	0.50	20.0		118	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*107*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS (B2A0256-BS2)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,1-Dichloroethene	23	0.50	20.0		115	70 - 130			
Benzene	42	0.50	40.0		106	70 - 130			
Chlorobenzene	22	0.50	20.0		110	70 - 130			
MTBE	23	0.50	20.0		113	70 - 130			
Toluene	44	0.50	40.0		109	70 - 130			
Trichloroethene	24	0.50	20.0		119	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*109*	*70 - 130*			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0256 - MSVOAW_LL (continued)									
LCS (B2A0256-BS2) - Continued					Prepared: 1/10/2012 Analyzed: 1/10/2012				
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			
LCS Dup (B2A0256-BSD1)					Prepared: 1/10/2012 Analyzed: 1/10/2012				
1,1-Dichloroethene	22	0.50	20.0		112	70 - 130	0.535	20	
Benzene	43	0.50	40.0		108	70 - 130	1.50	20	
Chlorobenzene	22	0.50	20.0		112	70 - 130	3.09	20	
MTBE	22	0.50	20.0		111	70 - 130	3.62	20	
Toluene	44	0.50	40.0		109	70 - 130	0.114	20	
Trichloroethene	24	0.50	20.0		118	70 - 130	0.340	20	
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*106*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*107*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*107*	*70 - 130*			
LCS Dup (B2A0256-BSD2)					Prepared: 1/10/2012 Analyzed: 1/10/2012				
1,1-Dichloroethene	23	0.50	20.0		114	70 - 130	0.830		
Benzene	43	0.50	40.0		107	70 - 130	0.890		
Chlorobenzene	22	0.50	20.0		112	70 - 130	1.81		
MTBE	23	0.50	20.0		114	70 - 130	1.41		
Toluene	43	0.50	40.0		108	70 - 130	0.850		
Trichloroethene	24	0.50	20.0		120	70 - 130	0.877		
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*107*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*108*	*70 - 130*			
Batch B2A0288 - MSVOAW_LL									
Blank (B2A0288-BLK1)					Prepared: 1/12/2012 Analyzed: 1/12/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0288 - MSVOAW_LL (continued)									
Blank (B2A0288-BLK1) - Continued				Prepared: 1/12/2012 Analyzed: 1/12/2012					
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0288 - MSVOAW_LL (continued)									
Blank (B2A0288-BLK1) - Continued				Prepared: 1/12/2012 Analyzed: 1/12/2012					
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*22*		*25.0*		*87.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*89.7*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.2*	*70 - 130*			
LCS (B2A0288-BS1)				Prepared: 1/12/2012 Analyzed: 1/12/2012					
1,1-Dichloroethene	16	0.50	20.0		80.0	70 - 130			
Benzene	36	0.50	40.0		90.3	70 - 130			
Chlorobenzene	21	0.50	20.0		107	70 - 130			
MTBE	18	0.50	20.0		90.2	70 - 130			
Toluene	37	0.50	40.0		91.9	70 - 130			
Trichloroethene	18	0.50	20.0		88.2	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*22*		*25.0*		*87.6*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*89.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*23*		*25.0*		*90.1*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*91.6*	*70 - 130*			
LCS (B2A0288-BS2)				Prepared: 1/12/2012 Analyzed: 1/12/2012					
1,1-Dichloroethene	15	0.50	20.0		76.8	70 - 130			
Benzene	37	0.50	40.0		91.5	70 - 130			
Chlorobenzene	21	0.50	20.0		107	70 - 130			
MTBE	18	0.50	20.0		89.2	70 - 130			
Toluene	37	0.50	40.0		92.0	70 - 130			
Trichloroethene	18	0.50	20.0		91.4	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*22*		*25.0*		*86.5*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*89.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*88.0*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*91.4*	*70 - 130*			
LCS Dup (B2A0288-BSD1)				Prepared: 1/12/2012 Analyzed: 1/12/2012					
1,1-Dichloroethene	15	0.50	20.0		76.5	70 - 130	4.41	20	
Benzene	36	0.50	40.0		91.2	70 - 130	1.05	20	
Chlorobenzene	22	0.50	20.0		108	70 - 130	0.834	20	
MTBE	18	0.50	20.0		88.6	70 - 130	1.79	20	
Toluene	37	0.50	40.0		92.0	70 - 130	0.163	20	
Trichloroethene	18	0.50	20.0		89.2	70 - 130	1.13	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0288 - MSVOAW_LL (continued)									
LCS Dup (B2A0288-BSD1) - Continued				Prepared: 1/12/2012 Analyzed: 1/12/2012					
Surrogate: 1,2-Dichloroethane-d4	*22*		*25.0*		*87.5*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*91.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*89.4*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*91.4*	*70 - 130*			
LCS Dup (B2A0288-BSD2)				Prepared: 1/12/2012 Analyzed: 1/12/2012					
1,1-Dichloroethene	15	0.50	20.0		74.4	70 - 130	3.04		
Benzene	36	0.50	40.0		89.8	70 - 130	1.96		
Chlorobenzene	22	0.50	20.0		108	70 - 130	1.07		
MTBE	17	0.50	20.0		86.8	70 - 130	2.73		
Toluene	36	0.50	40.0		90.9	70 - 130	1.20		
Trichloroethene	18	0.50	20.0		88.8	70 - 130	2.89		
Surrogate: 1,2-Dichloroethane-d4	*21*		*25.0*		*85.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*90.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*87.4*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*90.3*	*70 - 130*			
Batch B2A0387 - MSVOAW_LL									
Blank (B2A0387-BLK1)				Prepared: 1/15/2012 Analyzed: 1/15/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0387 - MSVOAW_LL (continued)									
Blank (B2A0387-BLK1) - Continued				Prepared: 1/15/2012 Analyzed: 1/15/2012					
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*90.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*104*	*70 - 130*			
LCS (B2A0387-BS1)				Prepared: 1/15/2012 Analyzed: 1/15/2012					

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0387 - MSVOAW_LL (continued)									
1,1-Dichloroethene	19	0.50	20.0		93.8	70 - 130			
Benzene	40	0.50	40.0		100	70 - 130			
Chlorobenzene	21	0.50	20.0		104	70 - 130			
MTBE	21	0.50	20.0		106	70 - 130			
Toluene	42	0.50	40.0		105	70 - 130			
Trichloroethene	20	0.50	20.0		102	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			
LCS (B2A0387-BS2)				Prepared: 1/15/2012 Analyzed: 1/15/2012					
1,1-Dichloroethene	18	0.50	20.0		91.4	70 - 130			
Benzene	39	0.50	40.0		98.6	70 - 130			
Chlorobenzene	21	0.50	20.0		106	70 - 130			
MTBE	21	0.50	20.0		106	70 - 130			
Toluene	41	0.50	40.0		103	70 - 130			
Trichloroethene	20	0.50	20.0		101	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*106*	*70 - 130*			
LCS Dup (B2A0387-BSD1)				Prepared: 1/15/2012 Analyzed: 1/15/2012					
1,1-Dichloroethene	19	0.50	20.0		93.4	70 - 130	0.374	20	
Benzene	39	0.50	40.0		98.6	70 - 130	1.78	20	
Chlorobenzene	21	0.50	20.0		107	70 - 130	2.51	20	
MTBE	21	0.50	20.0		104	70 - 130	1.85	20	
Toluene	41	0.50	40.0		104	70 - 130	1.22	20	
Trichloroethene	20	0.50	20.0		102	70 - 130	0.440	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*91.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
LCS Dup (B2A0387-BSD2)				Prepared: 1/15/2012 Analyzed: 1/15/2012					
1,1-Dichloroethene	19	0.50	20.0		93.0	70 - 130	1.74		
Benzene	40	0.50	40.0		99.3	70 - 130	0.682		
Chlorobenzene	21	0.50	20.0		107	70 - 130	1.12		
MTBE	21	0.50	20.0		106	70 - 130	0.236		
Toluene	42	0.50	40.0		104	70 - 130	1.50		
Trichloroethene	20	0.50	20.0		101	70 - 130	0.248		
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.4*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0387 - MSVOAW_LL (continued)									
LCS Dup (B2A0387-BSD2) - Continued				Prepared: 1/15/2012 Analyzed: 1/15/2012					
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*106*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0388 - MSVOAW_LL									
Blank (B2A0388-BLK1)				Prepared: 1/16/2012 Analyzed: 1/16/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0388 - MSVOAW_LL (continued)									
Blank (B2A0388-BLK1) - Continued				Prepared: 1/16/2012 Analyzed: 1/16/2012					
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*99.5*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*88.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*103*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0388 - MSVOAW_LL (continued)									
LCS (B2A0388-BS1)				Prepared: 1/16/2012 Analyzed: 1/16/2012					
1,1-Dichloroethene	20	0.50	20.0		100	70 - 130			
Benzene	43	0.50	40.0		107	70 - 130			
Chlorobenzene	22	0.50	20.0		112	70 - 130			
MTBE	21	0.50	20.0		107	70 - 130			
Toluene	44	0.50	40.0		111	70 - 130			
Trichloroethene	23	0.50	20.0		115	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*93.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*87.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.4*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*103*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0388 - MSVOAW_LL (continued)									
LCS (B2A0388-BS2)				Prepared: 1/16/2012 Analyzed: 1/16/2012					
1,1-Dichloroethene	21	0.50	20.0		104	70 - 130			
Benzene	43	0.50	40.0		108	70 - 130			
Chlorobenzene	23	0.50	20.0		116	70 - 130			
MTBE	22	0.50	20.0		110	70 - 130			
Toluene	45	0.50	40.0		114	70 - 130			
Trichloroethene	24	0.50	20.0		120	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*24*		*25.0*		*96.1*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*89.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*104*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0388 - MSVOAW_LL (continued)									
LCS Dup (B2A0388-BSD1)				Prepared: 1/16/2012 Analyzed: 1/16/2012					
1,1-Dichloroethene	20	0.50	20.0		100	70 - 130	0.299	20	
Benzene	42	0.50	40.0		105	70 - 130	1.94	20	
Chlorobenzene	22	0.50	20.0		111	70 - 130	0.672	20	
MTBE	22	0.50	20.0		108	70 - 130	0.745	20	
Toluene	44	0.50	40.0		110	70 - 130	1.38	20	
Trichloroethene	22	0.50	20.0		112	70 - 130	2.59	20	
Surrogate: 1,2-Dichloroethane-d4	*24*		*25.0*		*96.3*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*88.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*104*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0388 - MSVOAW_LL (continued)									
LCS Dup (B2A0388-BSD2)				Prepared: 1/16/2012 Analyzed: 1/16/2012					
1,1-Dichloroethene	20	0.50	20.0		102	70 - 130	2.34		
Benzene	43	0.50	40.0		108	70 - 130	0.0232		
Chlorobenzene	23	0.50	20.0		114	70 - 130	1.17		
MTBE	22	0.50	20.0		109	70 - 130	0.548		
Toluene	45	0.50	40.0		112	70 - 130	1.73		
Trichloroethene	23	0.50	20.0		117	70 - 130	2.40		
Surrogate: 1,2-Dichloroethane-d4	*24*		*25.0*		*95.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*91.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*106*	*70 - 130*			

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1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0275 - MSSEMI_ISOTOPEDILN									
Blank (B2A0275-BLK1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,4-Dioxane	ND	2.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*59*		*100*		*59.3*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*69*		*100*		*69.4*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*96*		*100*		*95.8*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*70*		*100*		*70.0*	*39 - 95*			

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1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0275 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B2A0275-BS1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,4-Dioxane	95	2.0	100		95.2	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*66*		*100*		*66.1*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*79*		*100*		*78.6*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*90*		*100*		*89.7*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*86*		*100*		*86.4*	*39 - 95*			

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1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0275 - MSSEMI_ISOTOPEDILN (continued)									
LCS Dup (B2A0275-BSD1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,4-Dioxane	96	2.0	100		96.4	70 - 130	1.21	20	
Surrogate: 1,2-Dichlorobenzene-d4	*65*		*100*		*65.1*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*80*		*100*		*80.2*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*91*		*100*		*91.2*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*80*		*100*		*79.7*	*39 - 95*			

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1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0276 - MSSEMI_ISOTOPEDILN									
Blank (B2A0276-BLK1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.71*		*1.00*		*70.7*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.88*		*1.00*		*88.3*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*108*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.68*		*1.00*		*67.9*	*50 - 136*			

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1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0276 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B2A0276-BS1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,4-Dioxane	0.99	0.20	1.00		98.8	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.74*		*1.00*		*74.0*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.98*		*1.00*		*98.2*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*108*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.76*		*1.00*		*75.5*	*50 - 136*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 01/23/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2A0276 - MSSEMI_ISOTOPEDILN (continued)									
LCS Dup (B2A0276-BSD1)				Prepared: 1/10/2012 Analyzed: 1/10/2012					
1,4-Dioxane	1.0	0.20	1.00		99.6	70 - 130	0.829	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.75*		*1.00*		*74.8*	*58 - 99*			
Surrogate: 2-Fluorobiphenyl	*0.96*		*1.00*		*96.5*	*60 - 104*			
Surrogate: 4-Terphenyl-d14	*1.0*		*1.00*		*104*	*65 - 127*			
Surrogate: Nitrobenzene-d5	*0.75*		*1.00*		*74.6*	*50 - 136*			

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San Diego , CA 92122		Reported :	01/23/2012

Notes and Definitions

ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Client: Advanced Technology Laboratories
Job No.: 136702

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column: Dionex AS9-HC/AG9-HSC
Eluent: 30 mM Na_2CO_3
Flow: 1.0 mL/min
Injection: 250 µL
Detection: Post-column derivatization, Visible detection, 450 nm

Sample preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations. One sample was diluted with water by 1:5 to separate the bromate from an interfering peak. The detection limit is adjusted for the dilution.

Parts Per Billion (µg/L)

Sample ID	Result	Detection Limit
ATL Lab#: 1200049-02 Client Sample ID: INF	1.0	0.5
ATL Lab#: 1200049-04 Client Sample ID: POX	14	3
ATL Lab#: 1200049-06 Client Sample ID: CEFF	7.3	0.5
ATL Lab#: 1200049-07 Client Sample ID: MW-21	0.7	0.5
ATL Lab#: 1200049-08 Client Sample ID: EW-02	ND	0.5
Method Blank	ND	0.5

Date Analyzed: 01-18-12

Quality Control Summary

Sample ID: Batch QC

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	ND	1000	1020	102	1030	103	1

Sample ID: ATL Lab#: 1200049-02 Client Sample ID: INF

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec
Bromate	1.0	20.0	17.4	82

QC Guidelines

Analyte	% Recovery	RPD Limit
Bromate	75-125	10

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1200049

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada

RECEIVING LABORATORY:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, CA 90670
Phone :(562) 948-2225
Fax: (562) 948-5850
PO#: SC06966 - Standard TAT

IMPORTANT: Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments (RA)
ATL Lab#: 1200049-02	**Client Sample ID: INF**	**Groundwater**	**01/06/12 08:00**	
317.0	01/20/12 17:00	01/07/12 08:00		BROMATE
ATL Lab#: 1200049-04	**Client Sample ID: POX**	**Groundwater**	**01/06/12 08:25**	
317.0	01/20/12 17:00	01/07/12 08:25		BROMATE
ATL Lab#: 1200049-06	**Client Sample ID: CEFF**	**Groundwater**	**01/06/12 09:05**	
317.0	01/20/12 17:00	01/07/12 09:05		BROMATE
ATL Lab#: 1200049-07	**Client Sample ID: MW-21**	**Groundwater**	**01/06/12 07:40**	
317.0	01/20/12 17:00	01/07/12 07:40		BROMATE
ATL Lab#: 1200049-08	**Client Sample ID: EW-02**	**Groundwater**	**01/06/12 09:15**	
317.0	01/20/12 17:00	01/07/12 09:15		BROMATE

Released By	1/6/12		Received By	1/9/12	945
Released By	1/9/12	1105	Received By	01-09-12	

Date / Date / Date / Date

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 1/6/12 PAGE 1 OF 1

PROJECT NAME	Raytheon Fullerton Monthly
PROJECT No./TASK No.	532.15
PROJECT MANAGER	Chris Ross
Phone No.	858-455-6500
QA MANAGER	Steve Netto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H20	PRESERVATION HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED VOCs by 8260B	1,4-Dioxane by 6270 SIM	Bromate by 317	TDS by SM2540C	TSS by SM2540D	Bromide by 300.0	1,4-Dioxane by EPA 8270 MOD	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0-10	10-100	100-1,000	>1,000
	TB-010612	1/6/12	07:00				X	X				X	2					X							X			
	INF		08:00		X			X				X	3	2	2		1	X		X	X	X	X	X		X		
	PF		08:15		X							X			1							X				X		
	POX		08:25		X			X				X	3	2	1		1	X	X	X	X		X		X			
	CBT		08:30		X			X				X	3					X							X			
	CEFF		09:05		X			X				X	3	2	1			X		X	X		X		X			
	MW-21		07:40		X			X				X	3	2	2		1	X		X	X	X	X	X			X	
	EW-02		09:15		X			X				X	3	2	2		1	X		X	X	X	X	X		X		

Total number of Containers per analysis: 2 10 9 4

SPECIAL HANDLING

LABORATORY INFORMATION

ATL
C/O Rachelle Arada
3275 Walnut Ave
Signal Hill, CA
90807
562-989-4045

REMARKS

Please include
mrodriguez@hargis.com
in lab report
distribution list
set 1,4-Dioxane
MDL to 1.0 ppm

Total No. of Containers: 43

Relinquished by:	Date	Time	Received by:	Date	Time
H+A	1/6/12	11:48	FPDiva ATL	1/6/12	11:47
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

- ☐ No. of containers correct
- ☑ received good condition/cold 2.4
- ☐ custody seals secure
- ☐ conforms to COC document

Shipment Method: Deliver

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

February 21, 2012

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200453

Client Reference : Raytheon Fullerton-Monthly, 532.15

Enclosed are the results for sample(s) received on February 08, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-020812	1200453-01	Lab H2O	2/08/12 8:00	2/08/12 11:32
EW-02	1200453-02	Groundwater	2/08/12 10:00	2/08/12 11:32
PF	1200453-03	Groundwater	2/08/12 8:55	2/08/12 11:32
POX	1200453-04	Groundwater	2/08/12 9:00	2/08/12 11:32
CBT	1200453-05	Groundwater	2/08/12 9:10	2/08/12 11:32
CEFF	1200453-06	Groundwater	2/08/12 9:20	2/08/12 11:32
MW-21	1200453-07	Groundwater	2/08/12 9:30	2/08/12 11:32
INF	1200453-08	Groundwater	2/08/12 8:40	2/08/12 11:32

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020812

Lab ID: 1200453-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,1-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
2-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
4-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Benzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Bromobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Bromodichloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Bromoform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Bromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Carbon tetrachloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Chlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Chloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Chloroform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Chloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID TB-020812

Lab ID: 1200453-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Dibromochloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Dibromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Ethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Isopropylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
m,p-Xylene	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Methylene chloride	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
n-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
n-Propylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Naphthalene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
o-Xylene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
sec-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Styrene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
tert-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Tetrachloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Toluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Trichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Vinyl chloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:09	
Surrogate: 1,2-Dichloroethane-d4	*103 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 22:09*	
Surrogate: 4-Bromofluorobenzene	*81.8 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 22:09*	
Surrogate: Dibromofluoromethane	*97.8 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 22:09*	
Surrogate: Toluene-d8	*94.4 %*	*70 - 130*			B2B0341	02/14/2012	*02/14/12 22:09*	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID EW-02

Lab ID: 1200453-02

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.23**	0.05	NA	1	B2B0245	02/09/2012	02/09/12 11:39	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**630**	10	10	1	B2B0374	02/14/2012	02/14/12 16:10	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B2B0370	02/14/2012	02/14/12 16:10	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,1-Dichloroethane	**0.53**	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,1-Dichloroethene	**54**	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID EW-02

Lab ID: 1200453-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
2-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
4-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Benzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Bromobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Bromodichloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Bromoform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Bromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Carbon tetrachloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Chlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Chloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Chloroform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Chloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Dibromochloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Dibromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Ethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Isopropylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
m,p-Xylene	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Methylene chloride	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
n-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
n-Propylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Naphthalene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
o-Xylene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
sec-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Styrene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
tert-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	

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Client Sample ID EW-02

Lab ID: 1200453-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Toluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Trichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Vinyl chloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:20	
Surrogate: 1,2-Dichloroethane-d4	*119 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:20*	
Surrogate: 4-Bromofluorobenzene	*89.2 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:20*	
Surrogate: Dibromofluoromethane	*115 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:20*	
Surrogate: Toluene-d8	*106 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:20*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**6.4**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 18:29	
Surrogate: 1,2-Dichlorobenzene-d4	*67.4 %*	*37 - 93*			B2B0271	02/10/2012	*02/10/12 18:29*	
Surrogate: 2-Fluorobiphenyl	*78.6 %*	*51 - 100*			B2B0271	02/10/2012	*02/10/12 18:29*	
Surrogate: 4-Terphenyl-d14	*98.6 %*	*58 - 113*			B2B0271	02/10/2012	*02/10/12 18:29*	
Surrogate: Nitrobenzene-d5	*83.7 %*	*39 - 95*			B2B0271	02/10/2012	*02/10/12 18:29*	

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Lab ID: 1200453-03

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B2B0370	02/14/2012	02/14/12 16:12	

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Lab ID: 1200453-04

Anions by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.43**	0.05	NA	1	B2B0245	02/09/2012	02/09/12 12:24	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**790**	10	10	1	B2B0374	02/14/2012	02/14/12 16:12	

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,1,2-Trichloroethane	**0.66**	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,1-Dichloroethane	**2.0**	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
2-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
4-Chlorotoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	

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Lab ID: 1200453-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Benzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Bromobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Bromodichloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Bromoform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Bromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Carbon tetrachloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Chlorobenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Chloroethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Chloroform	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Chloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Dibromochloromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Dibromomethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Ethylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Isopropylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
m,p-Xylene	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Methylene chloride	ND	1.0	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
n-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
n-Propylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Naphthalene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
o-Xylene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
sec-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Styrene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
tert-Butylbenzene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Tetrachloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Toluene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Trichloroethene	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	
Vinyl chloride	ND	0.50	NA	1	B2B0341	02/14/2012	02/14/12 22:29	

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Lab ID: 1200453-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 22:29*	
Surrogate: 4-Bromofluorobenzene	*82.8 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 22:29*	
Surrogate: Dibromofluoromethane	*101 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 22:29*	
Surrogate: Toluene-d8	*95.8 %*		*70 - 130*		B2B0341	02/14/2012	*02/14/12 22:29*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.64**	0.20	0.13	1	B2B0237	02/09/2012	02/09/12 20:44	
Surrogate: 1,2-Dichlorobenzene-d4	*82.2 %*		*36 - 107*		B2B0237	02/09/2012	*02/09/12 20:44*	
Surrogate: 2-Fluorobiphenyl	*85.4 %*		*42 - 120*		B2B0237	02/09/2012	*02/09/12 20:44*	
Surrogate: 4-Terphenyl-d14	*116 %*		*67 - 142*		B2B0237	02/09/2012	*02/09/12 20:44*	
Surrogate: Nitrobenzene-d5	*80.1 %*		*36 - 130*		B2B0237	02/09/2012	*02/09/12 20:44*	

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Client Sample ID CBT

Lab ID: 1200453-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,1-Dichloroethane	**2.4**	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
2-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
4-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
4-Isopropyltoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Benzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Bromobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Bromodichloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Bromoform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Bromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Carbon tetrachloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Chlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Chloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Chloroform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Chloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	

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Lab ID: 1200453-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Dibromochloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Dibromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Ethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Isopropylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
m,p-Xylene	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Methylene chloride	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
n-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
n-Propylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Naphthalene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
o-Xylene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
sec-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Styrene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
tert-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Tetrachloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Toluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Trichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Vinyl chloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 02:41	
Surrogate: 1,2-Dichloroethane-d4	*119 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:41*	
Surrogate: 4-Bromofluorobenzene	*91.4 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:41*	
Surrogate: Dibromofluoromethane	*115 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:41*	
Surrogate: Toluene-d8	*106 %*	*70 - 130*			B2B0380	02/16/2012	*02/16/12 02:41*	

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Lab ID: 1200453-06

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.44**	0.05	NA	1	B2B0245	02/09/2012	02/09/12 12:36	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**810**	10	10	1	B2B0374	02/14/2012	02/14/12 16:14	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,1-Dichloroethane	**2.5**	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,1-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,1-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2-Dibromoethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2-Dichloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,3-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
2,2-Dichloropropane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
2-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
4-Chlorotoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	

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Lab ID: 1200453-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Benzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Bromobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Bromodichloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Bromoform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Bromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Carbon tetrachloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Chlorobenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Chloroethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Chloroform	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Chloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Dibromochloromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Dibromomethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Dichlorodifluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Ethylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Hexachlorobutadiene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Isopropylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
m,p-Xylene	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Methylene chloride	ND	1.0	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
n-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
n-Propylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Naphthalene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
o-Xylene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
sec-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Styrene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
tert-Butylbenzene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Tetrachloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Toluene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Trichloroethene	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Trichlorofluoromethane	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	
Vinyl chloride	ND	0.50	NA	1	B2B0380	02/16/2012	02/16/12 03:01	

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Lab ID: 1200453-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*118 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:01*	
Surrogate: 4-Bromofluorobenzene	*89.3 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:01*	
Surrogate: Dibromofluoromethane	*112 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:01*	
Surrogate: Toluene-d8	*105 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 03:01*	

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Lab ID: 1200453-07

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**1.1**	0.10	NA	2	B2B0245	02/09/2012	02/09/12 12:47	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**1300**	12	12	1	B2B0374	02/14/2012	02/14/12 16:16	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	12	12	1.25	B2B0370	02/14/2012	02/14/12 16:14	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,1,1-Trichloroethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,1,2,2-Tetrachloroethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,1,2-Trichloroethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,1-Dichloroethane	**8.5**	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,1-Dichloroethene	**520**	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,1-Dichloropropene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2,3-Trichloropropane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2,3-Trichlorobenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2,4-Trichlorobenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2,4-Trimethylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2-Dibromo-3-chloropropane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2-Dibromoethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2-Dichlorobenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2-Dichloroethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,2-Dichloropropane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,3,5-Trimethylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	

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Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,3-Dichloropropane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
1,4-Dichlorobenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
2,2-Dichloropropane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
2-Chlorotoluene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
4-Chlorotoluene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
4-Isopropyltoluene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Benzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Bromobenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Bromodichloromethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Bromoform	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Bromomethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Carbon tetrachloride	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Chlorobenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Chloroethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Chloroform	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Chloromethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
cis-1,2-Dichloroethene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
cis-1,3-Dichloropropene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Dibromochloromethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Dibromomethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Dichlorodifluoromethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Ethylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Hexachlorobutadiene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Isopropylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
m,p-Xylene	ND	8.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Methylene chloride	ND	8.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
n-Butylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
n-Propylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Naphthalene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
o-Xylene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
sec-Butylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Styrene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
tert-Butylbenzene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	

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Lab ID: 1200453-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Toluene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
trans-1,2-Dichloroethene	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Trichloroethene	**11**	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Trichlorofluoromethane	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Vinyl chloride	ND	4.0	NA	8	B2B0500	02/21/2012	02/21/12 04:54	
Surrogate: 1,2-Dichloroethane-d4	*128 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:54*	
Surrogate: 4-Bromofluorobenzene	*93.7 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:54*	
Surrogate: Dibromofluoromethane	*122 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:54*	
Surrogate: Toluene-d8	*109 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 04:54*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**33**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 18:58	
Surrogate: 1,2-Dichlorobenzene-d4	*61.4 %*		*37 - 93*		B2B0271	02/10/2012	*02/10/12 18:58*	
Surrogate: 2-Fluorobiphenyl	*78.6 %*		*51 - 100*		B2B0271	02/10/2012	*02/10/12 18:58*	
Surrogate: 4-Terphenyl-d14	*98.5 %*		*58 - 113*		B2B0271	02/10/2012	*02/10/12 18:58*	
Surrogate: Nitrobenzene-d5	*80.0 %*		*39 - 95*		B2B0271	02/10/2012	*02/10/12 18:58*	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
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Client Sample ID INF

Lab ID: 1200453-08

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.46**	0.05	NA	1	B2B0245	02/09/2012	02/09/12 12:58	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**790**	10	10	1	B2B0374	02/14/2012	02/14/12 16:18	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	10	1	B2B0370	02/14/2012	02/14/12 16:16	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,1,1-Trichloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,1,2,2-Tetrachloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,1,2-Trichloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,1-Dichloroethane	**2.8**	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,1-Dichloroethene	**300**	5.0	NA	10	B2B0380	02/16/2012	02/16/12 04:03	
1,1-Dichloropropene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2,3-Trichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2,3-Trichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2,4-Trichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2,4-Trimethylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2-Dibromo-3-chloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2-Dibromoethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2-Dichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2-Dichloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,2-Dichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,3,5-Trimethylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	

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San Diego , CA 92122	Reported : 02/21/2012

Client Sample ID INF

Lab ID: 1200453-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,3-Dichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
1,4-Dichlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
2,2-Dichloropropane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
2-Chlorotoluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
4-Chlorotoluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
4-Isopropyltoluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Benzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Bromobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Bromodichloromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Bromoform	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Bromomethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Carbon tetrachloride	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Chlorobenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Chloroethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Chloroform	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Chloromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
cis-1,2-Dichloroethene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
cis-1,3-Dichloropropene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Dibromochloromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Dibromomethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Dichlorodifluoromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Ethylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Hexachlorobutadiene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Isopropylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
m,p-Xylene	ND	2.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Methylene chloride	ND	2.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
n-Butylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
n-Propylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Naphthalene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
o-Xylene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
sec-Butylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Styrene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
tert-Butylbenzene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	

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Lab ID: 1200453-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Toluene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
trans-1,2-Dichloroethene	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Trichloroethene	**3.4**	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Trichlorofluoromethane	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Vinyl chloride	ND	1.0	NA	2	B2B0500	02/21/2012	02/21/12 05:14	
Surrogate: 1,2-Dichloroethane-d4	*118 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 04:03*	
Surrogate: 1,2-Dichloroethane-d4	*129 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 05:14*	
Surrogate: 4-Bromofluorobenzene	*88.8 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 04:03*	
Surrogate: 4-Bromofluorobenzene	*92.0 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 05:14*	
Surrogate: Dibromofluoromethane	*122 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 05:14*	
Surrogate: Dibromofluoromethane	*111 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 04:03*	
Surrogate: Toluene-d8	*110 %*		*70 - 130*		B2B0500	02/21/2012	*02/21/12 05:14*	
Surrogate: Toluene-d8	*103 %*		*70 - 130*		B2B0380	02/16/2012	*02/16/12 04:03*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: MFR**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**10**	2.0	1.7	1	B2B0271	02/10/2012	02/10/12 19:26	
Surrogate: 1,2-Dichlorobenzene-d4	*67.2 %*		*37 - 93*		B2B0271	02/10/2012	*02/10/12 19:26*	
Surrogate: 2-Fluorobiphenyl	*75.1 %*		*51 - 100*		B2B0271	02/10/2012	*02/10/12 19:26*	
Surrogate: 4-Terphenyl-d14	*98.5 %*		*58 - 113*		B2B0271	02/10/2012	*02/10/12 19:26*	
Surrogate: Nitrobenzene-d5	*80.4 %*		*39 - 95*		B2B0271	02/10/2012	*02/10/12 19:26*	

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QUALITY CONTROL SECTION

Anions by Ion Chromatography EPA 300.0 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0245 - No_Prep_IC_1									
Blank (B2B0245-BLK1)				Prepared: 2/9/2012 Analyzed: 2/9/2012					
Bromide	ND	0.05			NR				
LCS (B2B0245-BS1)				Prepared: 2/9/2012 Analyzed: 2/9/2012					
Bromide	0.98	0.05	1.00		98	90 - 110			
Matrix Spike (B2B0245-MS1)		**Source: 1200453-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
Bromide	3.3	0.05	2.50	0.23	125	80 - 120			M1
Matrix Spike Dup (B2B0245-MSD1)		**Source: 1200453-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
Bromide	3.3	0.05	2.50	0.23	123	80 - 120	1	20	M1

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Total Dissolved Solids (Residue, Filterable) by SM 2540C - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0374 - No_Prep_WC_1									
Blank (B2B0374-BLK1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Residue, Dissolved	ND	10			NR				
LCS (B2B0374-BS1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Residue, Dissolved	1000	10	970		103	80 - 120			

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Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0370 - No_Prep_WC_1									
Blank (B2B0370-BLK1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Residue, Suspended	ND	10			NR				
LCS (B2B0370-BS1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Residue, Suspended	93	10	96.6		96	80 - 120			

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL									
Blank (B2B0341-BLK1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL (continued)									
Blank (B2B0341-BLK1) - Continued				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.5*	*70 - 130*			
LCS (B2B0341-BS1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	17	0.50	20.0		83.6	70 - 130			
Benzene	37	0.50	40.0		92.8	70 - 130			
Chlorobenzene	20	0.50	20.0		100	70 - 130			
MTBE	19	0.50	20.0		95.0	70 - 130			
Toluene	38	0.50	40.0		95.4	70 - 130			
Trichloroethene	20	0.50	20.0		97.5	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.5*	*70 - 130*			
LCS (B2B0341-BS2)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	24	0.50	20.0		120	70 - 130			
Benzene	41	0.50	40.0		104	70 - 130			
Chlorobenzene	22	0.50	20.0		109	70 - 130			
MTBE	20	0.50	20.0		102	70 - 130			
Toluene	43	0.50	40.0		108	70 - 130			
Trichloroethene	22	0.50	20.0		109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*102*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0341 - MSVOAW_LL (continued)									
LCS (B2B0341-BS2) - Continued				Prepared: 2/14/2012 Analyzed: 2/14/2012					
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS Dup (B2B0341-BSD1)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	17	0.50	20.0		85.2	70 - 130	1.78	20	
Benzene	37	0.50	40.0		93.7	70 - 130	1.02	20	
Chlorobenzene	20	0.50	20.0		100	70 - 130	0.200	20	
MTBE	19	0.50	20.0		96.8	70 - 130	1.77	20	
Toluene	39	0.50	40.0		96.4	70 - 130	0.938	20	
Trichloroethene	20	0.50	20.0		98.6	70 - 130	1.07	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.6*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.3*	*70 - 130*			
LCS Dup (B2B0341-BSD2)				Prepared: 2/14/2012 Analyzed: 2/14/2012					
1,1-Dichloroethene	25	0.50	20.0		123	70 - 130	2.46	20	
Benzene	43	0.50	40.0		106	70 - 130	2.69	20	
Chlorobenzene	23	0.50	20.0		113	70 - 130	3.69	20	
MTBE	21	0.50	20.0		106	70 - 130	3.98	20	
Toluene	44	0.50	40.0		111	70 - 130	2.71	20	
Trichloroethene	22	0.50	20.0		112	70 - 130	2.99	20	
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.2*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*96.6*	*70 - 130*			
Batch B2B0380 - MSVOAW_LL									
Blank (B2B0380-BLK1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0380 - MSVOAW_LL (continued)									
Blank (B2B0380-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0380 - MSVOAW_LL (continued)									
Blank (B2B0380-BLK1) - Continued				Prepared: 2/15/2012 Analyzed: 2/15/2012					
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.6*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.2*	*70 - 130*			
LCS (B2B0380-BS1)				Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	18		20.0		92.2	70 - 130			
Benzene	41		40.0		103	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	21		20.0		106	70 - 130			
Toluene	42		40.0		106	70 - 130			
Trichloroethene	21		20.0		107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*21*		*25.0*		*85.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*18*		*25.0*		*70.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*20*		*25.0*		*81.9*	*70 - 130*			
Surrogate: Toluene-d8	*20*		*25.0*		*79.8*	*70 - 130*			
Matrix Spike (B2B0380-MS1)		**Source: 1200453-02RE1**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	70		20.0	54	84.1	70 - 130			
Benzene	46		40.0	ND	115	70 - 130			
Chlorobenzene	24		20.0	ND	121	70 - 130			
MTBE	23		20.0	ND	113	70 - 130			
Toluene	47		40.0	ND	118	70 - 130			
Trichloroethene	24		20.0	ND	122	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*23*		*25.0*		*93.2*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*19*		*25.0*		*74.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*22*		*25.0*		*87.2*	*70 - 130*			
Surrogate: Toluene-d8	*21*		*25.0*		*85.2*	*70 - 130*			
Matrix Spike Dup (B2B0380-MSD1)		**Source: 1200453-02RE1**		Prepared: 2/15/2012 Analyzed: 2/15/2012					
1,1-Dichloroethene	66		20.0	54	60.4	70 - 130	6.97	20	M2
Benzene	41		40.0	ND	104	70 - 130	10.2	20	
Chlorobenzene	22		20.0	ND	112	70 - 130	7.42	20	
MTBE	21		20.0	ND	106	70 - 130	6.40	20	
Toluene	42		40.0	ND	106	70 - 130	11.0	20	
Trichloroethene	22		20.0	ND	108	70 - 130	12.4	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0380 - MSVOAW_LL (continued)									
Matrix Spike Dup (B2B0380-MSD1) - Continued			**Source: 1200453-02RE1**		Prepared: 2/15/2012 Analyzed: 2/15/2012				
Surrogate: 1,2-Dichloroethane-d4	*19*		*25.0*		*76.6*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*15*		*25.0*		*61.1*	*70 - 130*			S6
Surrogate: Dibromofluoromethane	*18*		*25.0*		*71.2*	*70 - 130*			
Surrogate: Toluene-d8	*17*		*25.0*		*69.2*	*70 - 130*			S6
Batch B2B0385 - MSVOAW_LL									
Blank (B2B0385-BLK1)					Prepared: 2/16/2012 Analyzed: 2/16/2012				
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				

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Report To : Steve Netto
Reported : 02/21/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
Blank (B2B0385-BLK1) - Continued				Prepared: 2/16/2012 Analyzed: 2/16/2012					
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*90.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*111*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
LCS (B2B0385-BS1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	19		20.0		94.2	70 - 130			
Benzene	42		40.0		105	70 - 130			
Chlorobenzene	22		20.0		112	70 - 130			
MTBE	23		20.0		115	70 - 130			
Toluene	43		40.0		107	70 - 130			
Trichloroethene	22		20.0		108	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
LCS Dup (B2B0385-BSD1)				Prepared: 2/16/2012 Analyzed: 2/16/2012					

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0385 - MSVOAW_LL (continued)									
1,1-Dichloroethene	19		20.0		94.4	70 - 130	0.265	20	
Benzene	42		40.0		104	70 - 130	0.334	20	
Chlorobenzene	22		20.0		111	70 - 130	0.582	20	
MTBE	22		20.0		111	70 - 130	3.41	20	
Toluene	43		40.0		107	70 - 130	0.420	20	
Trichloroethene	21		20.0		107	70 - 130	0.745	20	
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*118*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*110*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Matrix Spike (B2B0385-MS1)		**Source: 1200466-04**		Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	22		20.0	ND	109	70 - 130			
Benzene	45		40.0	ND	114	70 - 130			
Chlorobenzene	24		20.0	ND	120	70 - 130			
MTBE	24		20.0	ND	118	70 - 130			
Toluene	47		40.0	ND	118	70 - 130			
Trichloroethene	24		20.0	ND	120	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*116*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*110*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Matrix Spike Dup (B2B0385-MSD1)		**Source: 1200466-04**		Prepared: 2/16/2012 Analyzed: 2/16/2012					
1,1-Dichloroethene	20		20.0	ND	98.7	70 - 130	10.2	20	
Benzene	41		40.0	ND	103	70 - 130	9.68	20	
Chlorobenzene	22		20.0	ND	111	70 - 130	7.83	20	
MTBE	22		20.0	ND	109	70 - 130	8.26	20	
Toluene	42		40.0	ND	106	70 - 130	11.0	20	
Trichloroethene	21		20.0	ND	107	70 - 130	11.3	20	
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*105*	*70 - 130*			
Batch B2B0500 - MSVOAW_LL									
Blank (B2B0500-BLK1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
Blank (B2B0500-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
Blank (B2B0500-BLK1) - Continued				Prepared: 2/20/2012 Analyzed: 2/20/2012					
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*119*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.5*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*117*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			
LCS (B2B0500-BS1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		95.2	70 - 130			
Benzene	40		40.0		99.8	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	20		20.0		101	70 - 130			
Toluene	41		40.0		102	70 - 130			
Trichloroethene	21		20.0		105	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*86.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*97.6*	*70 - 130*			
LCS (B2B0500-BS2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		91.1	70 - 130			
Benzene	40		40.0		101	70 - 130			
Chlorobenzene	22		20.0		110	70 - 130			
MTBE	21		20.0		107	70 - 130			
Toluene	42		40.0		104	70 - 130			
Trichloroethene	21		20.0		107	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*94.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*112*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			

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San Diego , CA 92122	Reported : 02/21/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS Dup (B2B0500-BSD1)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	19		20.0		93.2	70 - 130	2.12	20	
Benzene	40		40.0		101	70 - 130	1.39	20	
Chlorobenzene	22		20.0		110	70 - 130	0.319	20	
MTBE	21		20.0		104	70 - 130	3.51	20	
Toluene	42		40.0		105	70 - 130	2.56	20	
Trichloroethene	22		20.0		108	70 - 130	2.67	20	
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*120*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.8*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*27*		*25.0*		*110*	*70 - 130*			

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0500 - MSVOAW_LL (continued)									
LCS Dup (B2B0500-BSD2)				Prepared: 2/20/2012 Analyzed: 2/20/2012					
1,1-Dichloroethene	18		20.0		90.2	70 - 130	0.993		
Benzene	41		40.0		102	70 - 130	1.35		
Chlorobenzene	22		20.0		111	70 - 130	1.49		
MTBE	22		20.0		110	70 - 130	2.53		
Toluene	42		40.0		105	70 - 130	1.17		
Trichloroethene	22		20.0		108	70 - 130	0.836		
Surrogate: 1,2-Dichloroethane-d4	*30*		*25.0*		*121*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*24*		*25.0*		*95.1*	*70 - 130*			
Surrogate: Dibromofluoromethane	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: Toluene-d8	*28*		*25.0*		*111*	*70 - 130*			

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San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI									
Blank (B2B0271-BLK1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	ND	2.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*75*		*100*		*75.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*86*		*100*		*85.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*110*		*100*		*106*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.7*	*39 - 95*			

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1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
LCS (B2B0271-BS1)				Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	93	2.0	100		93.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*76*		*100*		*76.2*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*84*		*100*		*84.2*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*96*		*100*		*95.7*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*93*		*100*		*92.9*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
Matrix Spike (B2B0271-MS1)		**Source: 1200453-02**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	110	2.0	100	6.4	102	0 - 200			
Surrogate: 1,2-Dichlorobenzene-d4	*79*		*100*		*78.7*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*89*		*100*		*88.7*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*97*		*100*		*97.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*100*		*100*		*101*	*39 - 95*			S8

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0271 - MSSEMI (continued)									
Matrix Spike Dup (B2B0271-MSD1)		**Source: 1200453-02**		Prepared: 2/10/2012 Analyzed: 2/10/2012					
1,4-Dioxane	110	2.0	100	6.4	103	0 - 200	1.19	200	
Surrogate: 1,2-Dichlorobenzene-d4	*74*		*100*		*74.4*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*83*		*100*		*82.9*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*89*		*100*		*89.1*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*94*		*100*		*93.6*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN									
Blank (B2B0237-BLK1)				Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.84*		*1.00*		*84.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.87*		*1.00*		*87.3*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*114*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.86*		*1.00*		*85.6*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B2B0237-BS1)				Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.83	0.20	1.00		83.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.89*		*1.00*		*88.7*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.94*		*1.00*		*93.5*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*112*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.96*		*1.00*		*96.3*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
Matrix Spike (B2B0237-MS1)		**Source: 1200446-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.80	0.20	1.00	ND	80.3	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.88*		*1.00*		*88.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.92*		*1.00*		*92.4*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*108*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.92*		*1.00*		*92.1*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 02/21/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B0237 - MSSEMI_ISOTOPEDILN (continued)									
Matrix Spike Dup (B2B0237-MSD1)		**Source: 1200446-02**		Prepared: 2/9/2012 Analyzed: 2/9/2012					
1,4-Dioxane	0.87	0.20	1.00	ND	86.6	70 - 130	7.56	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.91*		*1.00*		*90.9*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.99*		*1.00*		*98.7*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*112*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*0.96*		*1.00*		*95.5*	*36 - 130*			

Hargis & Associates, Inc.		Project Number :	Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	02/21/2012

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
S6	Surrogate recovery was below laboratory acceptance limit. See CAR for details.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Client: Advanced Technology Laboratories
Job No.: 137486

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column: Dionex AS9-HC/AG9-HSC
Eluent: 30 mM Na_2CO_3
Flow: 1.0 mL/min
Injection: 250 µL
Detection: Post-column derivatization, Visible detection, 450 nm

Sample preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations. One sample was diluted with water by 1:5 to separate the bromate from an interfering peak. The detection limit is adjusted for the dilution.

Parts Per Billion (µg/L)

Sample ID	Result	Detection Limit
ATL Lab#: 1200453-02 Client Sample ID: EW-02	ND	0.5
ATL Lab#: 1200453-04 Client Sample ID: POX	14	3
ATL Lab#: 1200453-06 Client Sample ID CEFF	7.3	0.5
ATL Lab#: 1200453-07 Client Sample ID: MW-21	ND	0.5
ATL Lab#: 1200453-08 Client Sample ID: INF	ND	0.5
Method Blank	ND	0.5

Date Analyzed: 02-13-12

Quality Control Summary

Sample ID: ATL Lab#: 1200453-04 Client Sample ID: POX

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec	Spike Duplicate Result	Spike Duplicate % Rec	Spike RPD
Bromate	14	25	38	96	37	92	3

QC Guidelines

Analyte	% Recovery	RPD Limit
Bromate	75-125	10

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1200453

SENDING LABORATORY:	RECEIVING LABORATORY:
Advanced Technology Laboratories	Exova Inc.
3275 Walnut Avenue	9240 Santa Fe Springs Road
Signal Hill, CA 90755	Santa Fe Springs, CA 90670
Phone: 562.989.4045	Phone :(562) 948-2225
Fax: 562.989.6348	Fax: (562) 948-5850
Project Manager: Rachelle Arada	PO#: SC07017 Standard TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1200453-02	**Client Sample ID: EW-02**	**Groundwater**	**02/08/12 10:00**	
317.0	02/22/12 17:00	02/09/12 10:00		Report Bromate
ATL Lab#: 1200453-04	**Client Sample ID: POX**	**Groundwater**	**02/08/12 09:00**	
317.0	02/22/12 17:00	02/09/12 09:00		Report Bromate
ATL Lab#: 1200453-06	**Client Sample ID: CEFF**	**Groundwater**	**02/08/12 09:20**	
317.0	02/22/12 17:00	02/09/12 09:20		Report Bromate
ATL Lab#: 1200453-07	**Client Sample ID: MW-21**	**Groundwater**	**02/08/12 09:30**	
317.0	02/22/12 17:00	02/09/12 09:30		Report Bromate
ATL Lab#: 1200453-08	**Client Sample ID: INF**	**Groundwater**	**02/08/12 08:40**	
317.0	02/22/12 17:00	02/09/12 08:40		Report Bromate

Released By	Date 2/8/12	Received By	Date 2/9/12 945
Released By	Date 2/9/12 1334	Received By Exova	Date 02-09-12 1:39pm

Page 1 of 1

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 2/8/12 PAGE 1 OF 1

PROJECT NAME Raytheon Fullerton-Monthly	**PROJECT No./TASK No.** 532.15
PROJECT MANAGER Chris Rose	**Phone No.** 858-455-6500
QA MANAGER Steve Ritzo	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab QC	PRESERVATION: HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS: 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED: VOCs by 8260B	1,4-Dioxane by 8270 SIM	Bromide by 300.0	TDS by SM2540	TSS by SM2540	Bromide by 300.0	LW-DIOXANE 01 CRAIG2004WOD	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1,000	>1,000	SPECIAL HANDLING: MS	MSD
1200453-01	TB-020812	2/8/12	08:00				X	X				X	2					X							X					
2	MW-5R-EW-02		10:00		X			X				X	5	2	2		3	X		X	X	X	X	X		X			X	X
3	PF		08:55		X			X				X			1			X				X					X			
4	PDX		09:00		X			X				X	3		1		1	X	X	X	X		X		X					
5	DST		09:10		X			X				X	3					X							X					
6	CBFF		09:20		X			X				X	3	2	1			X		X	X		X		X					
7	MW-21		09:30		X			X				X	3	2	2		1	X		X	X	X	X	X				X		
8	INF	↓	08:40		X			X				X	3	2	2		1	X		X	X	X	X	X			X			

Total number of Containers per analysis: 36 10 7 6

Total No. of Containers: 59

Relinquished by:	Date	Time	Received by:	Date	Time
Company: IHA	2/8/12	11:31	Company: ARL	2/9/12	1111
Relinquished by:	Date	Time	Received by:	Date	Time
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold

☐ custody seals secure ☐ conforms to COC document

Shipment Method: DELIVERY

Send Results to: Steve Ritzo

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

LABORATORY INFORMATION
ARL
C/O Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA
90807
562-989-4045
REMARKS
Please include
mrodriguez@hargis.com
in lab report
distribution list
set 1,4-Dioxane
MDL to 1.0 ppb

ORIGINAL - LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

March 20, 2012

ACCREDITED IN ACCORDANCE WITH nelac

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200860

Client Reference : Raytheon Fullerton - Quarterly, 532.15

Enclosed are the results for sample(s) received on March 09, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EW-02	1200860-01	Groundwater	3/09/12 10:25	3/09/12 11:48
POX	1200860-02	Groundwater	3/09/12 9:10	3/09/12 11:48
MW-21	1200860-03	Groundwater	3/09/12 9:40	3/09/12 11:48
INF	1200860-04	Groundwater	3/09/12 8:40	3/09/12 11:48

CASE NARRATIVE

Samples for Alkalinity (310.1) were subcontracted to AETL with ELAP Cert.# 1541.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID EW-02

Lab ID: 1200860-01

Anions Scan by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**97**	5.0	NA	10	B2C0266	03/09/2012	03/09/12 17:06	
Nitrate as N	**5.0**	0.10	NA	1	B2C0266	03/09/2012	03/09/12 14:04	
Nitrite, as N	ND	0.10	NA	1	B2C0266	03/09/2012	03/09/12 14:04	
ortho-Phosphate (As P)	ND	0.05	NA	1	B2C0266	03/09/2012	03/09/12 14:04	
Sulfate	**140**	10	NA	10	B2C0266	03/09/2012	03/09/12 17:06	

Chemical Oxygen Demand by EPA 410.4 — **Analyst: LA**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	ND	5.0	NA	1	B2C0351	03/13/2012	03/13/12 13:00	

Total Metals by ICP-AES EPA 6010B — **Analyst: KK/HF**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	ND	0.01	NA	1	B2C0370	03/14/2012	03/14/12 15:56	

Dissolved Metals by ICP-AES EPA 6010B — **Analyst: KK/HF**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**85**	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:37	
Iron	ND	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:37	
Magnesium	**26**	0.10	NA	1	B2C0369	03/14/2012	03/14/12 16:37	
Manganese	ND	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:37	
Selenium	ND	0.01	NA	1	B2C0369	03/14/2012	03/14/12 16:37	
Sodium	**74**	1.0	NA	1	B2C0369	03/14/2012	03/14/12 16:37	

Total Organic Carbon by SM 5310B — **Analyst: PT**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	NA	1	B2C0420	03/15/2012	03/15/12 22:36	J

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID POX
Lab ID: 1200860-02

Anions Scan by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**190**	10	NA	20	B2C0266	03/09/2012	03/09/12 17:40	
Nitrate as N	**6.3**	0.10	NA	1	B2C0266	03/09/2012	03/09/12 14:15	
Nitrite, as N	ND	0.10	NA	1	B2C0266	03/09/2012	03/09/12 14:15	
ortho-Phosphate (As P)	ND	0.05	NA	1	B2C0266	03/09/2012	03/09/12 14:15	
Sulfate	**140**	5.0	NA	5	B2C0266	03/09/2012	03/09/12 16:55	

Chemical Oxygen Demand by EPA 410.4

Analyst: LA

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	**10.3**	5.0	NA	1	B2C0351	03/13/2012	03/13/12 13:00	

Total Organic Carbon by SM 5310B

Analyst: PT

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	NA	1	B2C0420	03/15/2012	03/15/12 22:51	J

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID MW-21

Lab ID: 1200860-03

Anions Scan by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**450**	25	NA	50	B2C0266	03/09/2012	03/09/12 18:03	
Nitrate as N	**10**	0.20	NA	2	B2C0266	03/09/2012	03/09/12 14:26	D1
Nitrite, as N	ND	0.20	NA	2	B2C0266	03/09/2012	03/09/12 14:26	D1
ortho-Phosphate (As P)	ND	0.10	NA	2	B2C0266	03/09/2012	03/09/12 14:26	D1
Sulfate	**120**	10	NA	10	B2C0266	03/09/2012	03/09/12 17:17	

Chemical Oxygen Demand by EPA 410.4 — **Analyst: LA**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	ND	5.0	NA	1	B2C0351	03/13/2012	03/13/12 13:00	

Total Metals by ICP-AES EPA 6010B — **Analyst: KK/HF**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	ND	0.01	NA	1	B2C0370	03/14/2012	03/14/12 15:59	

Dissolved Metals by ICP-AES EPA 6010B — **Analyst: KK/HF**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**190**	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:43	
Iron	ND	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:43	
Magnesium	**52**	0.10	NA	1	B2C0369	03/14/2012	03/14/12 16:43	
Manganese	ND	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:43	
Selenium	ND	0.01	NA	1	B2C0369	03/14/2012	03/14/12 16:43	
Sodium	**160**	5.0	NA	5	B2C0369	03/14/2012	03/15/12 08:40	

Total Organic Carbon by SM 5310B — **Analyst: PT**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	NA	1	B2C0420	03/15/2012	03/15/12 23:05	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID INF

Lab ID: 1200860-04

Anions Scan by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chloride	**190**	10	NA	20	B2C0266	03/09/2012	03/09/12 17:52	
Nitrate as N	**6.3**	0.10	NA	1	B2C0266	03/09/2012	03/09/12 14:38	
Nitrite, as N	ND	0.10	NA	1	B2C0266	03/09/2012	03/09/12 14:38	
ortho-Phosphate (As P)	ND	0.05	NA	1	B2C0266	03/09/2012	03/09/12 14:38	
Sulfate	**130**	10	NA	10	B2C0266	03/09/2012	03/09/12 17:29	

Chemical Oxygen Demand by EPA 410.4 — **Analyst: LA**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chemical Oxygen Demand	**6.0**	5.0	NA	1	B2C0351	03/13/2012	03/13/12 13:00	

Total Metals by ICP-AES EPA 6010B — **Analyst: KK/HF**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Selenium	ND	0.01	NA	1	B2C0370	03/14/2012	03/14/12 16:04	

Dissolved Metals by ICP-AES EPA 6010B — **Analyst: KK/HF**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Calcium	**100**	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:44	
Iron	ND	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:44	
Magnesium	**30**	0.10	NA	1	B2C0369	03/14/2012	03/14/12 16:44	
Manganese	ND	0.50	NA	1	B2C0369	03/14/2012	03/14/12 16:44	
Selenium	ND	0.01	NA	1	B2C0369	03/14/2012	03/14/12 16:44	
Sodium	**89**	1.0	NA	1	B2C0369	03/14/2012	03/14/12 16:44	

Total Organic Carbon by SM 5310B — **Analyst: PT**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Organic Carbon, Total	ND	3.0	NA	1	B2C0420	03/15/2012	03/15/12 23:18	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

QUALITY CONTROL SECTION

Anions Scan by Ion Chromatography EPA 300.0 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0266 - No_Prep_IC_1									
Blank (B2C0266-BLK1)				Prepared: 3/9/2012 Analyzed: 3/9/2012					
Chloride	ND	0.50			NR				
Nitrate as N	ND	0.10			NR				
Nitrite, as N	ND	0.10			NR				
ortho-Phosphate (As P)	ND	0.05			NR				
Sulfate	ND	1.0			NR				
LCS (B2C0266-BS1)				Prepared: 3/9/2012 Analyzed: 3/9/2012					
Chloride	0.98	0.50	1.00		98	90 - 110			
Nitrate as N	0.98	0.10	1.00		98	90 - 110			
Nitrite, as N	0.97	0.10	1.00		97	90 - 110			
ortho-Phosphate (As P)	1.0	0.05	1.00		102	90 - 110			
Sulfate	2.1	1.0	2.00		103	90 - 110			
Duplicate (B2C0266-DUP1)		**Source: 1200849-01RE1**		Prepared: 3/9/2012 Analyzed: 3/9/2012					
Chloride	110	25			NR			20	
Nitrate as N	ND	5.0			NR			20	
Nitrite, as N	ND	5.0			NR			20	
ortho-Phosphate (As P)	ND	2.5			NR			20	
Sulfate	730	50			NR			20	
Matrix Spike (B2C0266-MS1)		**Source: 1200849-01RE1**		Prepared: 3/9/2012 Analyzed: 3/9/2012					
Chloride	4.4		2.50		175	80 - 120			
Nitrate as N	2.7		2.50		109	80 - 120			
Nitrite, as N	2.6		2.50		105	80 - 120			
ortho-Phosphate (As P)	3.2		2.50		129	80 - 120			M1
Sulfate	20		5.00		404	80 - 120			
Matrix Spike Dup (B2C0266-MSD1)		**Source: 1200849-01RE1**		Prepared: 3/9/2012 Analyzed: 3/9/2012					
Chloride	4.4		2.50		174	80 - 120	0.04	20	
Nitrate as N	2.6		2.50		106	80 - 120	3	20	
Nitrite, as N	2.6		2.50		105	80 - 120	0.3	20	
ortho-Phosphate (As P)	3.3		2.50		130	80 - 120	0.9	20	M1
Sulfate	20		5.00		405	80 - 120	0.3	20	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Chemical Oxygen Demand by EPA 410.4 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0351 - Prep_WC_1_W									
Blank (B2C0351-BLK1)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
Chemical Oxygen Demand	ND	5.0			NR				
LCS (B2C0351-BS1)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
Chemical Oxygen Demand	476.1	5.0	500		95	80 - 120			
Matrix Spike (B2C0351-MS1)		**Source: 1200808-01**		Prepared: 3/13/2012 Analyzed: 3/13/2012					
Chemical Oxygen Demand	529	5.0	500	33.8	99	80 - 120			
Matrix Spike Dup (B2C0351-MSD1)		**Source: 1200808-01**		Prepared: 3/13/2012 Analyzed: 3/13/2012					
Chemical Oxygen Demand	533	5.0	500	33.8	100	80 - 120	0.7	20	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0370 - EPA 3010A									
Blank (B2C0370-BLK1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
Selenium	ND	0.01			NR				
LCS (B2C0370-BS1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
Selenium	0.89	0.01	1.00		89.3	85 - 115			
Matrix Spike (B2C0370-MS1)		**Source: 1200860-04**		Prepared: 3/14/2012 Analyzed: 3/14/2012					
Selenium	2.4	0.01	2.50	ND	94.1	78 - 116			
Matrix Spike Dup (B2C0370-MSD1)		**Source: 1200860-04**		Prepared: 3/14/2012 Analyzed: 3/14/2012					
Selenium	2.3	0.01	2.50	ND	90.1	78 - 116	4.33	20	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
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San Diego , CA 92122	Reported : 03/20/2012

Dissolved Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0369 - EPA 3010A									
Blank (B2C0369-BLK1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
Calcium	ND	0.50			NR				
Iron	0.61	0.50			NR				
Magnesium	ND	0.10			NR				
Manganese	ND	0.50			NR				
Selenium	ND	0.01			NR				
Sodium	ND	1.0			NR				
LCS (B2C0369-BS1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
Calcium	19	0.50	20.0		97.5	85 - 115			
Iron	19	0.50			NR	85 - 115			B
Magnesium	19	0.10	20.0		94.3	85 - 115			
Manganese	18	0.50	20.0		90.1	85 - 115			
Selenium	0.91	0.01	1.00		90.7	85 - 115			
Sodium	16	1.0	16.0		97.8	85 - 115			
Matrix Spike (B2C0369-MS1)		**Source: 1200860-04**		Prepared: 3/14/2012 Analyzed: 3/14/2012					
Calcium	130	0.50	20.0	100	159	5 - 159			
Iron	19	0.50	20.0	0.04	95.7	71 - 118			B
Magnesium	52	0.10	20.0	30	110	69 - 126			
Manganese	18	0.50	20.0	0.004	89.8	79 - 109			
Selenium	2.3	0.01	2.50	ND	93.4	78 - 116			
Sodium	120	1.0	20.0	89	149	70 - 130			E
Matrix Spike (B2C0369-MS2)		**Source: 1200860-04**		Prepared: 3/14/2012 Analyzed: 3/15/2012					
Calcium	130	2.5	20.0	100	139	5 - 159			
Iron	19	2.5	20.0	0.04	95.9	71 - 118			B
Magnesium	53	0.50	20.0	30	112	69 - 126			
Manganese	20	2.5	20.0	0.004	98.4	79 - 109			
Selenium	2.3	0.05	2.50	ND	91.5	78 - 116			
Sodium	120	5.0	20.0	89	149	70 - 130			M1
Matrix Spike Dup (B2C0369-MSD1)		**Source: 1200860-04**		Prepared: 3/14/2012 Analyzed: 3/14/2012					
Calcium	130	0.50	20.0	100	145	5 - 159	2.04	20	
Iron	19	0.50	20.0	0.04	96.1	71 - 118	0.334	20	B
Magnesium	51	0.10	20.0	30	106	69 - 126	1.56	20	
Manganese	18	0.50	20.0	0.004	89.3	79 - 109	0.624	20	
Selenium	2.3	0.01	2.50	ND	92.2	78 - 116	1.26	20	
Sodium	120	1.0	20.0	89	139	70 - 130	1.69	20	E
Matrix Spike Dup (B2C0369-MSD2)		**Source: 1200860-04**		Prepared: 3/14/2012 Analyzed: 3/15/2012					
Calcium	130	2.5	20.0	100	120	5 - 159	2.92	20	
Iron	19	2.5	20.0	0.04	92.3	71 - 118	3.72	20	B

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
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San Diego , CA 92122	Reported : 03/20/2012

Dissolved Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0369 - EPA 3010A (continued)									
Matrix Spike Dup (B2C0369-MSD2) - Continued		**Source: 1200860-04**		Prepared: 3/14/2012 Analyzed: 3/15/2012					
Magnesium	51	0.50	20.0	30	107	69 - 126	2.00	20	
Manganese	19	2.5	20.0	0.004	95.9	79 - 109	2.59	20	
Selenium	2.3	0.05	2.50	ND	90.7	78 - 116	0.815	20	
Sodium	120	5.0	20.0	89	134	70 - 130	2.44	20	M1

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Total Organic Carbon by SM 5310B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0420 - No_Prep_II_W									
Blank (B2C0420-BLK1)				Prepared: 3/15/2012 Analyzed: 3/15/2012					
Organic Carbon, Total	ND	3.0			NR				
LCS (B2C0420-BS1)				Prepared: 3/15/2012 Analyzed: 3/15/2012					
Organic Carbon, Total	18.6	3.0	19.9		93	80 - 120			
LCS Dup (B2C0420-BSD1)				Prepared: 3/15/2012 Analyzed: 3/15/2012					
Organic Carbon, Total	18.5	3.0	19.9		93	80 - 120	0.2	20	

Hargis & Associates, Inc.		Project Number :	Raytheon Fullerton - Quarterly, 532.15
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	03/20/2012

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
E	Result value above quantitation range.
D1	Sample required dilution due to possible matrix interference.
B	Analyte detected in the associated method blank.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories **3275 Walnut Street** **Signal Hill, CA 90755-5225**

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 2 **Date Received 03/12/2012** **Date Reported 03/20/2012**

Job Number	Order Date	Client
65052	03/12/2012	ATL

Project ID: 1200860
Project Name: PO# SC07102

Enclosed please find results of analyses of 3 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Project ID: 1200860
Date Received 03/12/2012
Date Reported 03/20/2012

Job Number	Order Date	Client
65052	03/12/2012	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 3 samples with the following specification on 03/12/2012.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
65052.01	1200860-01	03/09/2012	Aqueous	1
65052.02	1200860-02	03/09/2012	Aqueous	1
65052.03	1200860-03	03/09/2012	Aqueous	1

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Street
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1200860
Project Name: PO# SC07102

AETL Job Number	Submitted	Client
65052	03/12/2012	ATL

Method: 310.1, Alkalinity, Titrimetric (pH 4.5), (EPA/600/4-79-020)

QC Batch No: 031512-1

Our Lab I.D.			Method Blank	65052.01	65052.02	65052.03	
Client Sample I.D.				1200860-01	1200860-02	1200860-03	
Date Sampled				03/09/2012	03/09/2012	03/09/2012	
Date Prepared			03/15/2012	03/15/2012	03/15/2012	03/15/2012	
Preparation Method			310.1	310.1	310.1	310.1	
Date Analyzed			03/15/2012	03/15/2012	03/15/2012	03/15/2012	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Alkalinity, Bicarbonate	2.0	2.0	ND	227	290	250	
Alkalinity, Carbonate	2.0	2.0	ND	ND	ND	ND	
Alkalinity, Hydroxide	2.0	2.0	ND	ND	ND	ND	
Alkalinity, Total	2.0	2.0	ND	227	290	250	

QUALITY CONTROL REPORT

QC Batch No: 031512-1; Dup or Spiked Sample: 65076.01; LCS: Clean Water; QC Prepared: 03/15/2012; QC Analyzed: 03/15/2012; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Alkalinity, Bicarbonate	330	20.0	350	100	20.0	350	100	<1	80-120	<15
Alkalinity, Total	330	20.0	350	100	20.0	350	100	<1	80-120	<15

QC Batch No: 031512-1; Dup or Spiked Sample: 65076.01; LCS: Clean Water; QC Prepared: 03/15/2012; QC Analyzed: 03/15/2012; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Alkalinity, Bicarbonate	330	350	5.9	<15	20.0	20.0	100	80-120		
Alkalinity, Total	330	350	5.9	<15	20.0	20.0	100	80-120		

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Data Qualifiers and Descriptors

Data Qualifier:

*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

ADVANCED TECHNOLOGY LABORATORIES

Job # 65052

SUBCONTRACT ORDER

Work Order: 1200860

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada

RECEIVING LABORATORY:

AETL
2834 North Naomi Street
Burbank, CA 91504
Phone :(818) 845-8200
Fax: (818) 845-8840
PO#: SC07102 - Standard TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments/Special Instructions
ATL Lab#: 1200860-01	**/ EW-02**	**Groundwater**	**03/09/12 10:25**	65052-01
310.1_2320B_Speciated	03/16/12 17:00	03/23/12 10:25		Report Hydroxide,Bicarbonate,Carbonate &Total.
ATL Lab#: 1200860-03	**/ MW-21**	**Groundwater**	**03/09/12 09:40**	65052-02
310.1_2320B_Speciated	03/16/12 17:00	03/23/12 09:40		Need Excel EDD.
ATL Lab#: 1200860-04	**/ INF**	**Groundwater**	**03/09/12 08:40**	65052-03
310.1_2320B_Speciated	03/16/12 17:00	03/23/12 08:40		

Released By	Date	Received By	Date
	3/9/12		
	3/12/12 1348		3/12/12 1340
	3/12/12 1525	Jean Claude	03/12/12 1525

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 3/9/12 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
Raytheon Fullerton - Quarterly	532.15
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Hetto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX: Soil	Ground-water	Surface water	Lab H2O	PRESERVATION: HCl	HNO 3	NaOH	H2SO 4	Ice	SAMPLE CONTAINERS: 125 ml Poly	250 ml Poly	500 ml Poly	40 ml VOA	ANALYSIS REQUESTED: Total Se by 6010B	Dissolved Se,Fe,Mn,Ca,Mg,Na,Alk by 6010B	Alkalinity (Hydroxide,Bicarb Carbonate and Total) by 310.1	TOC by 415.1	Anions (Cl,SO4,NO3,NO2,PO4) by 300	COD by 410.4	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S: 0-10	10-100	100-1000	>1,000	SPECIAL HANDLING: Lab to filter and acidify	Dissolved metals	Lab to filter anions
1200860-01	EW-02	3/9/12	10:25	X				X	X		X	X	1	1	3	1	X	X	X	X	X	X		X			X		X
-02	POX		09:10	X				X			X	X	1		1	1				X	X	X	X						X
-03	MW-21		09:40	X				X			X	X	1	1	3	1	X	X	X	X	X	X				X	X		X
-04	INF		08:40	X				X	X		X	X	1	1	3	1	X	X	X	X	X	X			X		X		X
Total number of Containers per analysis:													4	3	10	4											**Total No. of Containers:** 21		

LABORATORY INFORMATION
ATL
Signal Hill
562-989-4045

REMARKS

Relinquished by:	Date	Time	Received by:	Date	Time
HTA	3/9/12	11:45	ATL	3/9/12	11:45
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:
☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: DELIVER
Send Results to: Steve Hetto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
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ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

March 20, 2012

ACCREDITED IN ACCORDANCE WITH nelac

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200869

Client Reference : Raytheon Fullerton-Monthly, 532.15

Enclosed are the results for sample(s) received on March 09, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-030912	1200869-01	Lab H2O	3/09/12 8:00	3/09/12 11:48
EW-02	1200869-02	Groundwater	3/09/12 10:25	3/09/12 11:48
PF	1200869-03	Groundwater	3/09/12 9:05	3/09/12 11:48
POX	1200869-04	Groundwater	3/09/12 9:10	3/09/12 11:48
CBT	1200869-05	Groundwater	3/09/12 9:20	3/09/12 11:48
CEFF	1200869-06	Groundwater	3/09/12 9:30	3/09/12 11:48
MW-21	1200869-07	Groundwater	3/09/12 9:40	3/09/12 11:48
INF	1200869-08	Groundwater	3/09/12 8:40	3/09/12 11:48

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID TB-030912

Lab ID: 1200869-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,1-Dichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,1-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,1-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2-Dibromoethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2-Dichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,3-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
2,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
2-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
4-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
4-Isopropyltoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Benzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Bromobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Bromodichloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Bromoform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Bromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Carbon tetrachloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Chlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Chloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Chloroform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Chloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID TB-030912

Lab ID: 1200869-01

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Dibromochloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Dibromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Dichlorodifluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Ethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Hexachlorobutadiene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Isopropylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
m,p-Xylene	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Methylene chloride	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
n-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
n-Propylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Naphthalene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
o-Xylene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
sec-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Styrene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
tert-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Tetrachloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Toluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Trichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Trichlorofluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Vinyl chloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 18:21	
Surrogate: 1,2-Dichloroethane-d4	*118 %*	*70 - 130*			B2C0282	03/12/2012	*03/12/12 18:21*	
Surrogate: 4-Bromofluorobenzene	*90.6 %*	*70 - 130*			B2C0282	03/12/2012	*03/12/12 18:21*	
Surrogate: Dibromofluoromethane	*112 %*	*70 - 130*			B2C0282	03/12/2012	*03/12/12 18:21*	
Surrogate: Toluene-d8	*101 %*	*70 - 130*			B2C0282	03/12/2012	*03/12/12 18:21*	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID EW-02
Lab ID: 1200869-02

Anions by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.21**	0.05	NA	1	B2C0312	03/13/2012	03/13/12 07:53	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**630**	10	NA	1	B2C0442	03/15/2012	03/16/12 07:00	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	NA	1	B2C0405	03/13/2012	03/13/12 14:57	

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,1-Dichloroethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,1-Dichloroethene	**59**	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,1-Dichloropropene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2-Dibromoethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2-Dichloroethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,2-Dichloropropane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID EW-02

Lab ID: 1200869-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,3-Dichloropropane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
2,2-Dichloropropane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
2-Chlorotoluene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
4-Chlorotoluene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
4-Isopropyltoluene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Benzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Bromobenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Bromodichloromethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Bromoform	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Bromomethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Carbon tetrachloride	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Chlorobenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Chloroethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Chloroform	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Chloromethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Dibromochloromethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Dibromomethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Dichlorodifluoromethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Ethylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Hexachlorobutadiene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Isopropylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
m,p-Xylene	ND	1.0	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Methylene chloride	ND	1.0	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
n-Butylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
n-Propylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Naphthalene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
o-Xylene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
sec-Butylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Styrene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
tert-Butylbenzene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID EW-02

Lab ID: 1200869-02

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Toluene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Trichloroethene	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Trichlorofluoromethane	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Vinyl chloride	ND	0.50	NA	1	B2C0338	03/14/2012	03/14/12 11:51	
Surrogate: 1,2-Dichloroethane-d4	*117 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 11:51*	
Surrogate: 4-Bromofluorobenzene	*89.2 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 11:51*	
Surrogate: Dibromofluoromethane	*111 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 11:51*	
Surrogate: Toluene-d8	*102 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 11:51*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: PIL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**12**	2.0	NA	1	B2C0288	03/12/2012	03/12/12 19:02	
Surrogate: 1,2-Dichlorobenzene-d4	*70.4 %*		*37 - 93*		B2C0288	03/12/2012	*03/12/12 19:02*	
Surrogate: 2-Fluorobiphenyl	*84.3 %*		*51 - 100*		B2C0288	03/12/2012	*03/12/12 19:02*	
Surrogate: 4-Terphenyl-d14	*102 %*		*58 - 113*		B2C0288	03/12/2012	*03/12/12 19:02*	
Surrogate: Nitrobenzene-d5	*67.9 %*		*39 - 95*		B2C0288	03/12/2012	*03/12/12 19:02*	

Hargis & Associates, Inc.		Project Number :	Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	03/20/2012

Client Sample ID PF

Lab ID: 1200869-03

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	NA	1	B2C0405	03/13/2012	03/13/12 14:59	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID POX
Lab ID: 1200869-04

Anions by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.44**	0.05	NA	1	B2C0312	03/13/2012	03/13/12 08:05	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**780**	10	NA	1	B2C0442	03/15/2012	03/16/12 07:02	

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,1,2-Trichloroethane	**0.58**	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,1-Dichloroethane	**2.0**	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,1-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,1-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2-Dibromoethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2-Dichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,3-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
2,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
2-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
4-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	

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San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID POX

Lab ID: 1200869-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Benzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Bromobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Bromodichloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Bromoform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Bromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Carbon tetrachloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Chlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Chloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Chloroform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Chloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Dibromochloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Dibromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Dichlorodifluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Ethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Hexachlorobutadiene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Isopropylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
m,p-Xylene	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Methylene chloride	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
n-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
n-Propylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Naphthalene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
o-Xylene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
sec-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Styrene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
tert-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Tetrachloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Toluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Trichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Trichlorofluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	
Vinyl chloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 21:50	

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Lab ID: 1200869-04

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*123 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:50*	
Surrogate: 4-Bromofluorobenzene	*90.0 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:50*	
Surrogate: Dibromofluoromethane	*116 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:50*	
Surrogate: Toluene-d8	*102 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:50*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: PIL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.85**	0.20	NA	1	B2C0344	03/14/2012	03/14/12 16:50	
Surrogate: 1,2-Dichlorobenzene-d4	*76.1 %*		*36 - 107*		B2C0344	03/14/2012	*03/14/12 16:50*	
Surrogate: 2-Fluorobiphenyl	*85.4 %*		*42 - 120*		B2C0344	03/14/2012	*03/14/12 16:50*	
Surrogate: 4-Terphenyl-d14	*102 %*		*67 - 142*		B2C0344	03/14/2012	*03/14/12 16:50*	
Surrogate: Nitrobenzene-d5	*150 %*		*36 - 130*		B2C0344	03/14/2012	*03/14/12 16:50*	S8

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Client Sample ID CBT

Lab ID: 1200869-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,1-Dichloroethane	**2.2**	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,1-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,1-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2-Dibromoethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2-Dichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,3-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
2,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
2-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
4-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
4-Isopropyltoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Benzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Bromobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Bromodichloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Bromoform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Bromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Carbon tetrachloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Chlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Chloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Chloroform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Chloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	

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Lab ID: 1200869-05

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Dibromochloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Dibromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Dichlorodifluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Ethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Hexachlorobutadiene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Isopropylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
m,p-Xylene	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Methylene chloride	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
n-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
n-Propylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Naphthalene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
o-Xylene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
sec-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Styrene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
tert-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Tetrachloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Toluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Trichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Trichlorofluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Vinyl chloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:11	
Surrogate: 1,2-Dichloroethane-d4	*106 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:11*	
Surrogate: 4-Bromofluorobenzene	*77.1 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:11*	
Surrogate: Dibromofluoromethane	*101 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:11*	
Surrogate: Toluene-d8	*88.1 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:11*	

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Lab ID: 1200869-06

Anions by Ion Chromatography EPA 300.0

Analyst: Phali

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.44**	0.05	NA	1	B2C0312	03/13/2012	03/13/12 08:16	

Total Dissolved Solids (Residue, Filterable) by SM 2540C

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**830**	10	NA	1	B2C0442	03/15/2012	03/16/12 07:04	

Volatile Organic Compounds by EPA 8260

Analyst: DC

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,1,1-Trichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,1,2,2-Tetrachloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,1,2-Trichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,1-Dichloroethane	**2.3**	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,1-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,1-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2,3-Trichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2,3-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2,4-Trichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2,4-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2-Dibromo-3-chloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2-Dibromoethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2-Dichloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,3,5-Trimethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,3-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,3-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
1,4-Dichlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
2,2-Dichloropropane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
2-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
4-Chlorotoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	

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Lab ID: 1200869-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Isopropyltoluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Benzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Bromobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Bromodichloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Bromoform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Bromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Carbon tetrachloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Chlorobenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Chloroethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Chloroform	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Chloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
cis-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
cis-1,3-Dichloropropene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Dibromochloromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Dibromomethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Dichlorodifluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Ethylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Hexachlorobutadiene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Isopropylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
m,p-Xylene	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Methylene chloride	ND	1.0	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
n-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
n-Propylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Naphthalene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
o-Xylene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
sec-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Styrene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
tert-Butylbenzene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Tetrachloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Toluene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
trans-1,2-Dichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Trichloroethene	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Trichlorofluoromethane	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	
Vinyl chloride	ND	0.50	NA	1	B2C0282	03/12/2012	03/12/12 22:32	

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9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID CEFF

Lab ID: 1200869-06

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*121 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:32*	
Surrogate: 4-Bromofluorobenzene	*89.8 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:32*	
Surrogate: Dibromofluoromethane	*116 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:32*	
Surrogate: Toluene-d8	*104 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 22:32*	

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
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San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID MW-21

Lab ID: 1200869-07

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**1.2**	0.10	NA	2	B2C0312	03/13/2012	03/13/12 08:27	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**1400**	14	NA	1	B2C0442	03/15/2012	03/16/12 07:06	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	NA	1	B2C0405	03/13/2012	03/13/12 15:01	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,1,1-Trichloroethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,1,2,2-Tetrachloroethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,1,2-Trichloroethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,1-Dichloroethane	**8.6**	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,1-Dichloroethene	**860**	10	NA	20	B2C0300	03/13/2012	03/13/12 17:12	
1,1-Dichloropropene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2,3-Trichloropropane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2,3-Trichlorobenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2,4-Trichlorobenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2,4-Trimethylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2-Dibromo-3-chloropropane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2-Dibromoethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2-Dichlorobenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2-Dichloroethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,2-Dichloropropane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,3,5-Trimethylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	

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Lab ID: 1200869-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,3-Dichloropropane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
1,4-Dichlorobenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
2,2-Dichloropropane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
2-Chlorotoluene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
4-Chlorotoluene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
4-Isopropyltoluene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Benzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Bromobenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Bromodichloromethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Bromoform	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Bromomethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Carbon tetrachloride	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Chlorobenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Chloroethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Chloroform	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Chloromethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
cis-1,2-Dichloroethene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
cis-1,3-Dichloropropene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Dibromochloromethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Dibromomethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Dichlorodifluoromethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Ethylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Hexachlorobutadiene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Isopropylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
m,p-Xylene	ND	8.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Methylene chloride	ND	8.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
n-Butylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
n-Propylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Naphthalene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
o-Xylene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
sec-Butylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Styrene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
tert-Butylbenzene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	

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Lab ID: 1200869-07

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Toluene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
trans-1,2-Dichloroethene	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Trichloroethene	**14**	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Trichlorofluoromethane	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Vinyl chloride	ND	4.0	NA	8	B2C0338	03/14/2012	03/14/12 12:12	
Surrogate: 1,2-Dichloroethane-d4	*107 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:12*	
Surrogate: 1,2-Dichloroethane-d4	*113 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 17:12*	
Surrogate: 4-Bromofluorobenzene	*78.6 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:12*	
Surrogate: 4-Bromofluorobenzene	*88.6 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 17:12*	
Surrogate: Dibromofluoromethane	*108 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 17:12*	
Surrogate: Dibromofluoromethane	*99.9 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:12*	
Surrogate: Toluene-d8	*90.5 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:12*	
Surrogate: Toluene-d8	*101 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 17:12*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: PIL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**61**	2.0	NA	1	B2C0288	03/12/2012	03/12/12 19:31	
Surrogate: 1,2-Dichlorobenzene-d4	*60.9 %*		*37 - 93*		B2C0288	03/12/2012	*03/12/12 19:31*	
Surrogate: 2-Fluorobiphenyl	*70.2 %*		*51 - 100*		B2C0288	03/12/2012	*03/12/12 19:31*	
Surrogate: 4-Terphenyl-d14	*99.8 %*		*58 - 113*		B2C0288	03/12/2012	*03/12/12 19:31*	
Surrogate: Nitrobenzene-d5	*58.3 %*		*39 - 95*		B2C0288	03/12/2012	*03/12/12 19:31*	

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Lab ID: 1200869-08

Anions by Ion Chromatography EPA 300.0 — **Analyst: Phali**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromide	**0.44**	0.05	NA	1	B2C0312	03/13/2012	03/13/12 08:39	

Total Dissolved Solids (Residue, Filterable) by SM 2540C — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Dissolved	**800**	10	NA	1	B2C0442	03/15/2012	03/16/12 07:08	

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D — **Analyst: AG**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Residue, Suspended	ND	10	NA	1	B2C0405	03/13/2012	03/13/12 15:03	

Volatile Organic Compounds by EPA 8260 — **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,1,1-Trichloroethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,1,2,2-Tetrachloroethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,1,2-Trichloroethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,1-Dichloroethane	**2.5**	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,1-Dichloroethene	**210**	2.0	NA	4	B2C0300	03/13/2012	03/13/12 16:52	
1,1-Dichloropropene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2,3-Trichloropropane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2,3-Trichlorobenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2,4-Trichlorobenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2,4-Trimethylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2-Dibromo-3-chloropropane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2-Dibromoethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2-Dichlorobenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2-Dichloroethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,2-Dichloropropane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,3,5-Trimethylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	

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Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,3-Dichloropropane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
1,4-Dichlorobenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
2,2-Dichloropropane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
2-Chlorotoluene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
4-Chlorotoluene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
4-Isopropyltoluene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Benzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Bromobenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Bromodichloromethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Bromoform	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Bromomethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Carbon tetrachloride	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Chlorobenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Chloroethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Chloroform	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Chloromethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
cis-1,2-Dichloroethene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
cis-1,3-Dichloropropene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Dibromochloromethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Dibromomethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Dichlorodifluoromethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Ethylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Hexachlorobutadiene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Isopropylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
m,p-Xylene	ND	2.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Methylene chloride	ND	2.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
n-Butylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
n-Propylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Naphthalene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
o-Xylene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
sec-Butylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Styrene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
tert-Butylbenzene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	

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Lab ID: 1200869-08

Volatile Organic Compounds by EPA 8260 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Tetrachloroethene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Toluene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
trans-1,2-Dichloroethene	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Trichloroethene	**3.8**	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Trichlorofluoromethane	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Vinyl chloride	ND	1.0	NA	2	B2C0338	03/14/2012	03/14/12 12:33	
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 16:52*	
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:33*	
Surrogate: 4-Bromofluorobenzene	*80.0 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 16:52*	
Surrogate: 4-Bromofluorobenzene	*79.2 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:33*	
Surrogate: Dibromofluoromethane	*100 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:33*	
Surrogate: Dibromofluoromethane	*98.8 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 16:52*	
Surrogate: Toluene-d8	*88.6 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 12:33*	
Surrogate: Toluene-d8	*91.3 %*		*70 - 130*		B2C0300	03/13/2012	*03/13/12 16:52*	

1,4-Dioxane by EPA 8270: Isotope Dilution Technique **Analyst: PIL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**25**	2.0	NA	1	B2C0288	03/12/2012	03/12/12 19:59	
Surrogate: 1,2-Dichlorobenzene-d4	*63.5 %*		*37 - 93*		B2C0288	03/12/2012	*03/12/12 19:59*	
Surrogate: 2-Fluorobiphenyl	*76.1 %*		*51 - 100*		B2C0288	03/12/2012	*03/12/12 19:59*	
Surrogate: 4-Terphenyl-d14	*101 %*		*58 - 113*		B2C0288	03/12/2012	*03/12/12 19:59*	
Surrogate: Nitrobenzene-d5	*62.3 %*		*39 - 95*		B2C0288	03/12/2012	*03/12/12 19:59*	

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QUALITY CONTROL SECTION

Anions by Ion Chromatography EPA 300.0 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0312 - No_Prep_IC_1									
Blank (B2C0312-BLK1)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
Bromide	ND	0.05			NR				
LCS (B2C0312-BS1)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
Bromide	0.92	0.05	1.00		92	90 - 110			
Duplicate (B2C0312-DUP1)		**Source: 1200875-02**		Prepared: 3/13/2012 Analyzed: 3/13/2012					
Bromide	ND	0.05		ND	NR			20	
Matrix Spike (B2C0312-MS1)		**Source: 1200875-02**		Prepared: 3/13/2012 Analyzed: 3/13/2012					
Bromide	2.7	0.05	2.50	ND	108	80 - 120			
Matrix Spike Dup (B2C0312-MSD1)		**Source: 1200875-02**		Prepared: 3/13/2012 Analyzed: 3/13/2012					
Bromide	2.7	0.05	2.50	ND	108	80 - 120	0.07	20	

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Total Dissolved Solids (Residue, Filterable) by SM 2540C - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0442 - No_Prep_WC_1									
Blank (B2C0442-BLK1)				Prepared: 3/15/2012 Analyzed: 3/16/2012					
Residue, Dissolved	ND	10			NR				
LCS (B2C0442-BS1)				Prepared: 3/15/2012 Analyzed: 3/16/2012					
Residue, Dissolved	980	10	970		101	80 - 120			
Duplicate (B2C0442-DUP1)		**Source: 1200869-08**		Prepared: 3/15/2012 Analyzed: 3/16/2012					
Residue, Dissolved	850	10		800	NR		6	10	

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Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0405 - No_Prep_WC_1									
Blank (B2C0405-BLK1)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
Residue, Suspended	ND	10			NR				
LCS (B2C0405-BS1)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
Residue, Suspended	94	10	96.6		97	80 - 120			
Duplicate (B2C0405-DUP1)		**Source: 1200841-06**		Prepared: 3/13/2012 Analyzed: 3/13/2012					
Residue, Suspended	1000	10		1000	NR		2	10	

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0282 - MSVOAW_LL									
Blank (B2C0282-BLK1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0282 - MSVOAW_LL (continued)									
Blank (B2C0282-BLK1) - Continued				Prepared: 3/12/2012 Analyzed: 3/12/2012					
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*88.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*111*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*103*	*70 - 130*			
LCS (B2C0282-BS1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	21	0.50	20.0		107	70 - 130			
Benzene	42	0.50	40.0		104	70 - 130			
Chlorobenzene	21	0.50	20.0		103	70 - 130			
MTBE	21	0.50	20.0		106	70 - 130			
Toluene	41	0.50	40.0		103	70 - 130			
Trichloroethene	20	0.50	20.0		102	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.8*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.1*	*70 - 130*			
LCS (B2C0282-BS2)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	20	0.50	20.0		100	70 - 130			
Benzene	41	0.50	40.0		103	70 - 130			
Chlorobenzene	21	0.50	20.0		103	70 - 130			
MTBE	21	0.50	20.0		106	70 - 130			
Toluene	41	0.50	40.0		103	70 - 130			
Trichloroethene	21	0.50	20.0		103	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*115*	*70 - 130*			

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0282 - MSVOAW_LL (continued)									
LCS (B2C0282-BS2) - Continued				Prepared: 3/12/2012 Analyzed: 3/12/2012					
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*103*	*70 - 130*			
LCS Dup (B2C0282-BSD1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	21	0.50	20.0		105	70 - 130	1.09	20	
Benzene	41	0.50	40.0		103	70 - 130	0.627	20	
Chlorobenzene	21	0.50	20.0		105	70 - 130	1.93	20	
MTBE	21	0.50	20.0		107	70 - 130	1.18	20	
Toluene	41	0.50	40.0		101	70 - 130	1.88	20	
Trichloroethene	21	0.50	20.0		103	70 - 130	0.880	20	
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*102*	*70 - 130*			
LCS Dup (B2C0282-BSD2)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	19	0.50	20.0		97.0	70 - 130	3.54		
Benzene	41	0.50	40.0		102	70 - 130	1.39		
Chlorobenzene	20	0.50	20.0		102	70 - 130	1.07		
MTBE	21	0.50	20.0		107	70 - 130	0.516		
Toluene	41	0.50	40.0		102	70 - 130	1.00		
Trichloroethene	20	0.50	20.0		102	70 - 130	0.929		
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*106*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.8*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*92.8*	*70 - 130*			
Batch B2C0300 - MSVOAW_LL									
Blank (B2C0300-BLK1)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				

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Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0300 - MSVOAW_LL (continued)									
Blank (B2C0300-BLK1) - Continued				Prepared: 3/13/2012 Analyzed: 3/13/2012					
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0300 - MSVOAW_LL (continued)									
Blank (B2C0300-BLK1) - Continued					Prepared: 3/13/2012 Analyzed: 3/13/2012				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.6*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*92.7*	*70 - 130*			
LCS (B2C0300-BS1)					Prepared: 3/13/2012 Analyzed: 3/13/2012				
1,1-Dichloroethene	20	0.50	20.0		101	70 - 130			
Benzene	40	0.50	40.0		98.8	70 - 130			
Chlorobenzene	20	0.50	20.0		102	70 - 130			
MTBE	20	0.50	20.0		100	70 - 130			
Toluene	39	0.50	40.0		98.4	70 - 130			
Trichloroethene	20	0.50	20.0		100	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*91.3*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*101*	*70 - 130*			
LCS (B2C0300-BS2)					Prepared: 3/13/2012 Analyzed: 3/13/2012				
1,1-Dichloroethene	21	0.50	20.0		106	70 - 130			
Benzene	41	0.50	40.0		101	70 - 130			
Chlorobenzene	21	0.50	20.0		103	70 - 130			
MTBE	20	0.50	20.0		98.0	70 - 130			
Toluene	40	0.50	40.0		101	70 - 130			
Trichloroethene	21	0.50	20.0		103	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*106*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.0*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*101*	*70 - 130*			
LCS Dup (B2C0300-BSD1)					Prepared: 3/13/2012 Analyzed: 3/13/2012				
1,1-Dichloroethene	21	0.50	20.0		105	70 - 130	4.08	20	
Benzene	41	0.50	40.0		102	70 - 130	3.02	20	
Chlorobenzene	21	0.50	20.0		104	70 - 130	1.60	20	
MTBE	21	0.50	20.0		106	70 - 130	5.24	20	
Toluene	41	0.50	40.0		103	70 - 130	4.18	20	
Trichloroethene	21	0.50	20.0		103	70 - 130	2.89	20	

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0300 - MSVOAW_LL (continued)									
LCS Dup (B2C0300-BSD1) - Continued				Prepared: 3/13/2012 Analyzed: 3/13/2012					
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*102*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*96.7*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.8*	*70 - 130*			
LCS Dup (B2C0300-BSD2)				Prepared: 3/13/2012 Analyzed: 3/13/2012					
1,1-Dichloroethene	20	0.50	20.0		102	70 - 130	4.19		
Benzene	41	0.50	40.0		102	70 - 130	0.590		
Chlorobenzene	21	0.50	20.0		103	70 - 130	0.0485		
MTBE	22	0.50	20.0		109	70 - 130	10.3		
Toluene	41	0.50	40.0		102	70 - 130	1.87		
Trichloroethene	20	0.50	20.0		102	70 - 130	1.56		
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.5*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*94.2*	*70 - 130*			
Batch B2C0338 - MSVOAW_LL									
Blank (B2C0338-BLK1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,1,1,2-Tetrachloroethane	ND	0.50			NR				
1,1,1-Trichloroethane	ND	0.50			NR				
1,1,2,2-Tetrachloroethane	ND	0.50			NR				
1,1,2-Trichloroethane	ND	0.50			NR				
1,1-Dichloroethane	ND	0.50			NR				
1,1-Dichloroethene	ND	0.50			NR				
1,1-Dichloropropene	ND	0.50			NR				
1,2,3-Trichloropropane	ND	0.50			NR				
1,2,3-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trichlorobenzene	ND	0.50			NR				
1,2,4-Trimethylbenzene	ND	0.50			NR				
1,2-Dibromo-3-chloropropane	ND	0.50			NR				
1,2-Dibromoethane	ND	0.50			NR				
1,2-Dichlorobenzene	ND	0.50			NR				
1,2-Dichloroethane	ND	0.50			NR				
1,2-Dichloropropane	ND	0.50			NR				
1,3,5-Trimethylbenzene	ND	0.50			NR				
1,3-Dichlorobenzene	ND	0.50			NR				
1,3-Dichloropropane	ND	0.50			NR				
1,4-Dichlorobenzene	ND	0.50			NR				
2,2-Dichloropropane	ND	0.50			NR				

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0338 - MSVOAW_LL (continued)									
Blank (B2C0338-BLK1) - Continued				Prepared: 3/14/2012 Analyzed: 3/14/2012					
2-Chlorotoluene	ND	0.50			NR				
4-Chlorotoluene	ND	0.50			NR				
4-Isopropyltoluene	ND	0.50			NR				
Benzene	ND	0.50			NR				
Bromobenzene	ND	0.50			NR				
Bromodichloromethane	ND	0.50			NR				
Bromoform	ND	0.50			NR				
Bromomethane	ND	0.50			NR				
Carbon tetrachloride	ND	0.50			NR				
Chlorobenzene	ND	0.50			NR				
Chloroethane	ND	0.50			NR				
Chloroform	ND	0.50			NR				
Chloromethane	ND	0.50			NR				
cis-1,2-Dichloroethene	ND	0.50			NR				
cis-1,3-Dichloropropene	ND	0.50			NR				
Dibromochloromethane	ND	0.50			NR				
Dibromomethane	ND	0.50			NR				
Dichlorodifluoromethane	ND	0.50			NR				
Ethylbenzene	ND	0.50			NR				
Hexachlorobutadiene	ND	0.50			NR				
Isopropylbenzene	ND	0.50			NR				
m,p-Xylene	ND	1.0			NR				
Methylene chloride	ND	1.0			NR				
n-Butylbenzene	ND	0.50			NR				
n-Propylbenzene	ND	0.50			NR				
Naphthalene	ND	0.50			NR				
o-Xylene	ND	0.50			NR				
sec-Butylbenzene	ND	0.50			NR				
Styrene	ND	0.50			NR				
tert-Butylbenzene	ND	0.50			NR				
Tetrachloroethene	ND	0.50			NR				
Toluene	ND	0.50			NR				
trans-1,2-Dichloroethene	ND	0.50			NR				
Trichloroethene	ND	0.50			NR				
Trichlorofluoromethane	ND	0.50			NR				
Vinyl chloride	ND	0.50			NR				
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*80.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.6*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*92.0*	*70 - 130*			
LCS (B2C0338-BS1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0338 - MSVOAW_LL (continued)									
1,1-Dichloroethene	23	0.50	20.0		113	70 - 130			
Benzene	41	0.50	40.0		103	70 - 130			
Chlorobenzene	21	0.50	20.0		103	70 - 130			
MTBE	19	0.50	20.0		94.0	70 - 130			
Toluene	40	0.50	40.0		101	70 - 130			
Trichloroethene	20	0.50	20.0		102	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*85.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.3*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*93.0*	*70 - 130*			
LCS (B2C0338-BS2)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,1-Dichloroethene	20	0.50	20.0		98.9	70 - 130			
Benzene	40	0.50	40.0		99.6	70 - 130			
Chlorobenzene	20	0.50	20.0		100	70 - 130			
MTBE	19	0.50	20.0		97.4	70 - 130			
Toluene	39	0.50	40.0		98.7	70 - 130			
Trichloroethene	20	0.50	20.0		98.4	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*81.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*95.5*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*90.2*	*70 - 130*			
LCS Dup (B2C0338-BSD1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,1-Dichloroethene	21	0.50	20.0		107	70 - 130	5.48	20	
Benzene	41	0.50	40.0		103	70 - 130	0.291	20	
Chlorobenzene	21	0.50	20.0		103	70 - 130	0.437	20	
MTBE	20	0.50	20.0		98.3	70 - 130	4.47	20	
Toluene	41	0.50	40.0		103	70 - 130	1.91	20	
Trichloroethene	20	0.50	20.0		102	70 - 130	0.588	20	
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.2*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*93.4*	*70 - 130*			
LCS Dup (B2C0338-BSD2)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,1-Dichloroethene	21	0.50	20.0		103	70 - 130	3.72		
Benzene	41	0.50	40.0		103	70 - 130	3.11		
Chlorobenzene	20	0.50	20.0		101	70 - 130	1.19		
MTBE	20	0.50	20.0		100	70 - 130	2.83		
Toluene	41	0.50	40.0		102	70 - 130	2.94		
Trichloroethene	20	0.50	20.0		101	70 - 130	2.85		
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0338 - MSVOAW_LL (continued)									
LCS Dup (B2C0338-BSD2) - Continued				Prepared: 3/14/2012 Analyzed: 3/14/2012					
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*89.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*98.3*	*70 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0288 - MSSEMI_ISOTOPEDILN									
Blank (B2C0288-BLK1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,4-Dioxane	ND	2.0			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*75*		*100*		*74.6*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*87*		*100*		*87.0*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*100*		*100*		*105*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*70*		*100*		*70.2*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0288 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B2C0288-BS1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,4-Dioxane	97	2.0	100		97.4	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*72*		*100*		*72.0*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*87*		*100*		*86.9*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*100*		*100*		*102*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*77*		*100*		*77.1*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0288 - MSSEMI_ISOTOPEDILN (continued)									
LCS Dup (B2C0288-BSD1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,4-Dioxane	98	2.0	100		97.6	70 - 130	0.164	20	
Surrogate: 1,2-Dichlorobenzene-d4	*70*		*100*		*69.8*	*37 - 93*			
Surrogate: 2-Fluorobiphenyl	*81*		*100*		*81.4*	*51 - 100*			
Surrogate: 4-Terphenyl-d14	*94*		*100*		*94.4*	*58 - 113*			
Surrogate: Nitrobenzene-d5	*72*		*100*		*72.4*	*39 - 95*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
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San Diego , CA 92122	Reported : 03/20/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0344 - MSSEMI_ISOTOPEDILN									
Blank (B2C0344-BLK1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.67*		*1.00*		*67.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.76*		*1.00*		*75.7*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*110*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*1.2*		*1.00*		*121*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0344 - MSSEMI_ISOTOPEDILN (continued)									
LCS (B2C0344-BS1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,4-Dioxane	1.2	0.20	1.00		125	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.70*		*1.00*		*70.0*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.79*		*1.00*		*78.5*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*0.98*		*1.00*		*97.7*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*1.2*		*1.00*		*120*	*36 - 130*			

Hargis & Associates, Inc.	Project Number : Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0344 - MSSEMI_ISOTOPEDILN (continued)									
LCS Dup (B2C0344-BSD1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,4-Dioxane	1.2	0.20	1.00		124	70 - 130	0.0546	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.70*		*1.00*		*70.0*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.77*		*1.00*		*76.6*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*0.98*		*1.00*		*97.8*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*1.3*		*1.00*		*125*	*36 - 130*			

Hargis & Associates, Inc.		Project Number :	Raytheon Fullerton-Monthly, 532.15
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	03/20/2012

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Client: Advanced Technology Laboratories
Job No.: 138245

Bromate by EPA 317
Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column:	Dionex AS9-HC/AG9-HSC
Eluent:	30 mM Na_2CO_3
Flow:	1.0 mL/min
Injection:	250 µL
Detection:	Post-column derivatization, Visible detection, 450 nm

Sample preparation: The undiluted samples were treated with a Dionex OnGuard II H cartridge to remove excess basic cations. One sample required dilution with water due to an interfering peak. The detection limit is adjusted for the dilution necessary for analysis.

Parts Per Billion (µg/L)

Sample ID	Result	Detection Limit
1200869-02 / EW-02	ND	0.5
1200869-04 / POX	12	5
1200869-06 / CEFF	12.1	0.5
1200869-06 / CEFF Duplicate	12.4	0.5
1200869-07 / MW-21	ND	0.5
1200869-08 / INF	ND	0.5
Method Blank	ND	0.5

Date Analyzed: 03-15-12

Quality Control Summary

Sample ID: 1200869-06 / CEFF

Analyte	Sample Result	Duplicate Result	Sample RPD	Spike Conc	Spike Result	Spike % Rec
Bromate	12.1	12.4	2	20.0	30.8	93
QC Guidelines			NMT 10			75 - 125

Sample ID: 1200869-07 / MW-21

Analyte	Sample Result	Spike Conc	Spike Result	Spike % Rec
Bromate	ND	10.0	9.2	92
QC Guidelines				75 - 125

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1200869

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada

RECEIVING LABORATORY:

Exova Inc.
9240 Santa Fe Springs Road
Santa Fe Springs, CA 90670
Phone :(562) 948-2225
Fax: (562) 948-5850
PO#: SC07103 - Standard TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires		Sampled	Comments / Special Instructions
ATL Lab#: 1200869-02	**/ EW-02**		**Groundwater**	**03/09/12 10:25**	
317.0	03/16/12 17:00	03/10/12 10:25			Report Bromate. Need Excel EDD.
ATL Lab#: 1200869-04	**/ POX**		**Groundwater**	**03/09/12 09:10**	
317.0	03/16/12 17:00	03/10/12 09:10			
ATL Lab#: 1200869-06	**/ CEFF**		**Groundwater**	**03/09/12 09:30**	
317.0	03/16/12 17:00	03/10/12 09:30			
ATL Lab#: 1200869-07	**/ MW-21**		**Groundwater**	**03/09/12 09:40**	
317.0	03/16/12 17:00	03/10/12 09:40			
ATL Lab#: 1200869-08	**/ INF**		**Groundwater**	**03/09/12 08:40**	
317.0	03/16/12 17:00	03/10/12 08:40			

Released By	3/9/12 Date	Received By	3/12/12 9:20 Date
Released By	3/12/12 10:25 Date	Received By	03-12-12 A10:25 Date

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 3/9/12 PAGE 1 OF 1

PROJECT NAME	Raytheon Fullerton-Monthly
PROJECT No./TASK No.	532.15
PROJECT MANAGER	Chris Ross
Phone No.	858-455-6500
QA MANAGER	Steve Ratto
Fax No.	858-455-6533
SAMPLER (SIGNATURE)	
SAMPLER (PRINTED)	Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground-water	Surface water	Lab H2O	PRESERVATION HCl	HNO3	NaOH	H2SO4	Ice	SAMPLE CONTAINERS 40 ml Glass VOA	125 ml Poly	250 ml Poly	500 ml Poly	1 L Amber	ANALYSIS REQUESTED VOCs by EPA 8260B	1,4-Dioxane by EPA 8270 SIM	Bromate by 317	TDS by SM2540C	ISS by SM540C	Bromide by 300	1,4-Dioxane by EPA 8270 SIM	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0 - 20	20 - 100	100 - 1,000	> 1,000
1200869-01	TB-030912	3/9/12	08:00				X	X				X	2					X							X			
-02	EB-02		10:25		X			X				X	3	2	2		1	X		X	X	X	X	X		X		
-03	PF		09:05		X							X			1							X				X		
-04	POX		09:10		X			X				X	3	2	1		1	X	X	X	X		X		X			
-05	CST		09:20		X			X				X	3					X							X			
-06	CEFF		09:30		X			X				X	3	2	1			X		X	X		X		X			
-07	MW-21		09:40		X			X				X	3	2	2		1	X		X	X	X	X	X				X
-08	INF		08:40		X			X				X	3	2	2		1	X		X	X	X	X	X			X	
Total number of Containers per analysis:													20	15	9		4											

SPECIAL HANDLING

LABORATORY INFORMATION

ALT
C/O Rachelle Arada
3275 Walnut Ave.
Signal Hill, CA
90807
562-989-4045

REMARKS

Please include mrodriguez@hargis.com in lab report distribution list
set 1,4-Dioxane MDL to 1.0 ppb

Total No. of Containers: 43

Relinquished by:	Date	Time	Received by:	Date	Time
H+A	3/9/12	11:47	ATL	3/9/12	11:45
Company			Company		
Relinquished by:	Date	Time	Received by:	Date	Time
Company			Company		

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with √ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt:

☐ No. of containers correct ☐ received good condition/cold
☐ custody seals secure ☐ conforms to COC document

Shipment Method: Deliver
Send Results to: Steve Ratto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL: LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

ADVANCED TECHNOLOGY LABORATORIES

March 20, 2012

ACCREDITED IN ACCORDANCE WITH nelac

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Steve Netto
Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122
Tel: (619) 249-3166
Fax:(858) 455-6533

Re: ATL Work Order Number : 1200871

Client Reference : RAYTHEON FULLERTON - QUARTERLY, 532.15

Enclosed are the results for sample(s) received on March 09, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

Hargis & Associates, Inc.	Project Number : RAYTHEON FULLERTON - QUARTER
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-030912	1200871-01	Lab H2O	3/09/12 8:00	3/09/12 11:48
CEFF	1200871-02	Groundwater	3/09/12 8:05	3/09/12 11:48

Hargis & Associates, Inc.	Project Number : RAYTHEON FULLERTON - QUARTER
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID TB-030912

Lab ID: 1200871-01

Volatile Organic Compounds by EPA 624 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1-Trichloroethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,1,2-Trichloroethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,1-Dichloroethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,1-Dichloroethene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,2-Dichlorobenzene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,2-Dichloroethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,2-Dichloropropane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,3-Dichlorobenzene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
1,4-Dichlorobenzene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
2-Chloroethyl vinyl ether	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Acrolein	ND	50	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Acrylonitrile	ND	50	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Benzene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Bromodichloromethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Bromoform	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Bromomethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Carbon tetrachloride	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Chlorobenzene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Chloroethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Chloroform	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Chloromethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Dibromochloromethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Ethylbenzene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
m,p-Xylene	ND	10	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Methylene chloride	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
o-Xylene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Tetrachloroethene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Toluene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
trans-1,3-Dichloropropene	ND	50	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Trichloroethene	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Trichlorofluoromethane	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	

Hargis & Associates, Inc.	Project Number : RAYTHEON FULLERTON - QUARTER
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID TB-030912

Lab ID: 1200871-01

Volatile Organic Compounds by EPA 624 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Vinyl chloride	ND	5.0	NA	1	B2C0338	03/14/2012	03/14/12 10:28	
Surrogate: 1,2-Dichloroethane-d4	*114 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 10:28*	
Surrogate: 4-Bromofluorobenzene	*86.2 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 10:28*	
Surrogate: Dibromofluoromethane	*108 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 10:28*	
Surrogate: Toluene-d8	*99.1 %*		*70 - 130*		B2C0338	03/14/2012	*03/14/12 10:28*	

Hargis & Associates, Inc.	Project Number : RAYTHEON FULLERTON - QUARTER
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID CEFF

Lab ID: 1200871-02

Volatile Organic Compounds by EPA 624 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1-Trichloroethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,1,2-Trichloroethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,1-Dichloroethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,1-Dichloroethene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,2-Dichlorobenzene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,2-Dichloroethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,2-Dichloropropane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,3-Dichlorobenzene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
1,4-Dichlorobenzene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
2-Chloroethyl vinyl ether	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Acrolein	ND	50	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Acrylonitrile	ND	50	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Benzene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Bromodichloromethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Bromoform	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Bromomethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Carbon tetrachloride	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Chlorobenzene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Chloroethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Chloroform	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Chloromethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Dibromochloromethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Ethylbenzene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
m,p-Xylene	ND	10	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Methylene chloride	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
o-Xylene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Tetrachloroethene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Toluene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
trans-1,3-Dichloropropene	ND	50	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Trichloroethene	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Trichlorofluoromethane	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	

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San Diego , CA 92122	Reported : 03/20/2012

Client Sample ID CEFF

Lab ID: 1200871-02

Volatile Organic Compounds by EPA 624 **Analyst: DC**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Vinyl chloride	ND	5.0	NA	1	B2C0282	03/12/2012	03/12/12 21:29	
Surrogate: 1,2-Dichloroethane-d4	*113 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:29*	
Surrogate: 4-Bromofluorobenzene	*82.9 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:29*	
Surrogate: Dibromofluoromethane	*106 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:29*	
Surrogate: Toluene-d8	*94.4 %*		*70 - 130*		B2C0282	03/12/2012	*03/12/12 21:29*	

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique **Analyst: PIL**

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,4-Dioxane	**0.84**	0.20	NA	1	B2C0344	03/14/2012	03/14/12 17:19	
Surrogate: 1,2-Dichlorobenzene-d4	*78.0 %*		*36 - 107*		B2C0344	03/14/2012	*03/14/12 17:19*	
Surrogate: 2-Fluorobiphenyl	*89.1 %*		*42 - 120*		B2C0344	03/14/2012	*03/14/12 17:19*	
Surrogate: 4-Terphenyl-d14	*116 %*		*67 - 142*		B2C0344	03/14/2012	*03/14/12 17:19*	
Surrogate: Nitrobenzene-d5	*156 %*		*36 - 130*		B2C0344	03/14/2012	*03/14/12 17:19*	S8

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QUALITY CONTROL SECTION

Volatile Organic Compounds by EPA 624 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0282 - MSVOAW_LL									
Blank (B2C0282-BLK1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2-Chloroethyl vinyl ether	ND	5.0			NR				
Acrolein	ND	50			NR				
Acrylonitrile	ND	50			NR				
Benzene	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	50			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*88.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*28*		*25.0*		*111*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*103*	*70 - 130*			

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Volatile Organic Compounds by EPA 624 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0282 - MSVOAW_LL (continued)									
LCS (B2C0282-BS1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	21	5.0	20.0		107	70 - 130			
Benzene	42	5.0	40.0		104	70 - 130			
Chlorobenzene	21	5.0	20.0		103	70 - 130			
Toluene	41	5.0	40.0		103	70 - 130			
Trichloroethene	20	5.0	20.0		102	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*84.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.8*	*70 - 130*			
Surrogate: Toluene-d8	*24*		*25.0*		*95.1*	*70 - 130*			
LCS (B2C0282-BS2)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	20	5.0	20.0		100	70 - 130			
Benzene	41	5.0	40.0		103	70 - 130			
Chlorobenzene	21	5.0	20.0		103	70 - 130			
Toluene	41	5.0	40.0		103	70 - 130			
Trichloroethene	21	5.0	20.0		103	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*29*		*25.0*		*115*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*92.7*	*70 - 130*			
Surrogate: Dibromofluoromethane	*27*		*25.0*		*109*	*70 - 130*			
Surrogate: Toluene-d8	*26*		*25.0*		*103*	*70 - 130*			
LCS Dup (B2C0282-BSD1)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	21	5.0	20.0		105	70 - 130	1.09	20	
Benzene	41	5.0	40.0		103	70 - 130	0.627	20	
Chlorobenzene	21	5.0	20.0		105	70 - 130	1.93	20	
Toluene	41	5.0	40.0		101	70 - 130	1.88	20	
Trichloroethene	21	5.0	20.0		103	70 - 130	0.880	20	
Surrogate: 1,2-Dichloroethane-d4	*28*		*25.0*		*114*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*23*		*25.0*		*93.4*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*102*	*70 - 130*			
LCS Dup (B2C0282-BSD2)				Prepared: 3/12/2012 Analyzed: 3/12/2012					
1,1-Dichloroethene	19	5.0	20.0		97.0	70 - 130	3.54		
Benzene	41	5.0	40.0		102	70 - 130	1.39		
Chlorobenzene	20	5.0	20.0		102	70 - 130	1.07		
Toluene	41	5.0	40.0		102	70 - 130	1.00		
Trichloroethene	20	5.0	20.0		102	70 - 130	0.929		
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*106*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*82.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.8*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*92.8*	*70 - 130*			

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Volatile Organic Compounds by EPA 624 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0282 - MSVOAW_LL (continued)									
LCS Dup (B2C0282-BSD2) - Continued				Prepared: 3/12/2012 Analyzed: 3/12/2012					
Batch B2C0338 - MSVOAW_LL									
Blank (B2C0338-BLK1)				Prepared: 3/14/2012 Analyzed: 3/14/2012					
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2-Chloroethyl vinyl ether	ND	5.0			NR				
Acrolein	ND	50			NR				
Acrylonitrile	ND	50			NR				
Benzene	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	50			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*104*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*80.9*	*70 - 130*			

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Volatile Organic Compounds by EPA 624 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0338 - MSVOAW_LL (continued)									
Blank (B2C0338-BLK1) - Continued					Prepared: 3/14/2012 Analyzed: 3/14/2012				
Surrogate: Dibromofluoromethane	*25*		*25.0*		*98.6*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*92.0*	*70 - 130*			
LCS (B2C0338-BS1)					Prepared: 3/14/2012 Analyzed: 3/14/2012				
1,1-Dichloroethene	23	5.0	20.0		113	70 - 130			
Benzene	41	5.0	40.0		103	70 - 130			
Chlorobenzene	21	5.0	20.0		103	70 - 130			
Toluene	40	5.0	40.0		101	70 - 130			
Trichloroethene	20	5.0	20.0		102	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*105*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*85.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*25*		*25.0*		*99.3*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*93.0*	*70 - 130*			
LCS (B2C0338-BS2)					Prepared: 3/14/2012 Analyzed: 3/14/2012				
1,1-Dichloroethene	20	5.0	20.0		98.9	70 - 130			
Benzene	40	5.0	40.0		99.6	70 - 130			
Chlorobenzene	20	5.0	20.0		100	70 - 130			
Toluene	39	5.0	40.0		98.7	70 - 130			
Trichloroethene	20	5.0	20.0		98.4	70 - 130			
Surrogate: 1,2-Dichloroethane-d4	*25*		*25.0*		*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*20*		*25.0*		*81.9*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*95.5*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*90.2*	*70 - 130*			
LCS Dup (B2C0338-BSD1)					Prepared: 3/14/2012 Analyzed: 3/14/2012				
1,1-Dichloroethene	21	5.0	20.0		107	70 - 130	5.48	20	
Benzene	41	5.0	40.0		103	70 - 130	0.291	20	
Chlorobenzene	21	5.0	20.0		103	70 - 130	0.437	20	
Toluene	41	5.0	40.0		103	70 - 130	1.91	20	
Trichloroethene	20	5.0	20.0		102	70 - 130	0.588	20	
Surrogate: 1,2-Dichloroethane-d4	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*21*		*25.0*		*83.6*	*70 - 130*			
Surrogate: Dibromofluoromethane	*24*		*25.0*		*97.2*	*70 - 130*			
Surrogate: Toluene-d8	*23*		*25.0*		*93.4*	*70 - 130*			
LCS Dup (B2C0338-BSD2)					Prepared: 3/14/2012 Analyzed: 3/14/2012				
1,1-Dichloroethene	21	5.0	20.0		103	70 - 130	3.72		
Benzene	41	5.0	40.0		103	70 - 130	3.11		
Chlorobenzene	20	5.0	20.0		101	70 - 130	1.19		
Toluene	41	5.0	40.0		102	70 - 130	2.94		

Hargis & Associates, Inc.	Project Number : RAYTHEON FULLERTON - QUARTER
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

Volatile Organic Compounds by EPA 624 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0338 - MSVOAW_LL (continued)									
LCS Dup (B2C0338-BSD2) - Continued				Prepared: 3/14/2012 Analyzed: 3/14/2012					
Trichloroethene	20	5.0	20.0		101	70 - 130	2.85		
Surrogate: 1,2-Dichloroethane-d4	*27*		*25.0*		*108*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene	*22*		*25.0*		*89.2*	*70 - 130*			
Surrogate: Dibromofluoromethane	*26*		*25.0*		*103*	*70 - 130*			
Surrogate: Toluene-d8	*25*		*25.0*		*98.3*	*70 - 130*			

Hargis & Associates, Inc.	Project Number : RAYTHEON FULLERTON - QUARTER
9171 Towne Centre Drive, Suite 375	Report To : Steve Netto
San Diego , CA 92122	Reported : 03/20/2012

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0344 - MSSEMI_ISOTOPEDILN									
Blank (B2C0344-BLK1)					Prepared: 3/14/2012 Analyzed: 3/14/2012				
1,4-Dioxane	ND	0.20			NR				
Surrogate: 1,2-Dichlorobenzene-d4	*0.67*		*1.00*		*67.1*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.76*		*1.00*		*75.7*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*1.1*		*1.00*		*110*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*1.2*		*1.00*		*121*	*36 - 130*			
LCS (B2C0344-BS1)					Prepared: 3/14/2012 Analyzed: 3/14/2012				
1,4-Dioxane	1.2	0.20	1.00		125	70 - 130			
Surrogate: 1,2-Dichlorobenzene-d4	*0.70*		*1.00*		*70.0*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.79*		*1.00*		*78.5*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*0.98*		*1.00*		*97.7*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*1.2*		*1.00*		*120*	*36 - 130*			
LCS Dup (B2C0344-BSD1)					Prepared: 3/14/2012 Analyzed: 3/14/2012				
1,4-Dioxane	1.2	0.20	1.00		124	70 - 130	0.0546	20	
Surrogate: 1,2-Dichlorobenzene-d4	*0.70*		*1.00*		*70.0*	*36 - 107*			
Surrogate: 2-Fluorobiphenyl	*0.77*		*1.00*		*76.6*	*42 - 120*			
Surrogate: 4-Terphenyl-d14	*0.98*		*1.00*		*97.8*	*67 - 142*			
Surrogate: Nitrobenzene-d5	*1.3*		*1.00*		*125*	*36 - 130*			

Hargis & Associates, Inc.		Project Number :	RAYTHEON FULLERTON - QUARTER
9171 Towne Centre Drive, Suite 375		Report To :	Steve Netto
San Diego , CA 92122		Reported :	03/20/2012

Notes and Definitions

S8	Surrogate recovery was above laboratory acceptance limit. See CAR for details.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 3/9/12 PAGE 1 OF 1

PROJECT NAME	PROJECT No./TASK No.
RAYTHEON FULLERTON - QUARTERLY	532.15
PROJECT MANAGER Chris Ross	**Phone No.** 858-455-6500
QA MANAGER Steve Netto	**Fax No.** 858-455-6533
SAMPLER (SIGNATURE)	**SAMPLER (PRINTED)** Marcos Rodriguez

LAB ID	SAMPLE ID	SAMPLE COLLECTION Date	Time	MATRIX Soil	Ground water	Surface water	Lab H20	PRESERVATION HCl	HNO_3	NaOH	H_2SO_4	Ice	SAMPLE CONTAINERS 40 ml VOA	1 L Amber	250 ml Poly	500 ml Poly	ANALYSIS REQUESTED VOCs by 624	1,4-Dioxane 8270 SIM	Total Se by 6010B	TDS by SM2540C	ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S 0 - 10 ug/L	SPECIAL HANDLING	REMARKS
1200871-01	TB-030912	3/9/12	08:00				X	X				X	2				X				X		SAME AS OTHER COC
1 - L	CEFF	↓	08:05		X			X				X	3	1			X	X			X		
Total number of Containers per analysis:													5	1									**Total No. of Containers:** 6

Relinquished by:	Date	Received by:	Date
HHA	3/9/12	Mark	3/9/12
Company	Time 11:47	ATL Company	Time 11:48
Relinquished by:	Date	Received by:	Date
Company	Time	Company	Time

INSTRUCTIONS

1. Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness.
2. Complete in ballpoint pen. Draw one line through errors, initial and date correction.
3. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x.
4. Note applicable preservatives, special instructions, and deviations from typical environmental samples.
5. Consult project QA documents for specific instructions.

Sample Receipt: **Temp. @ receipt** _____ °C

☐ **No. of containers correct** ☐ **received good condition/cold**

☐ **custody seals secure** ☐ **conforms to COC document**

Shipment Method: DELIVER

Send Results to: Steve Netto

☒ 9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (858) 455-6500

☐ 1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

☐ 1820 EAST RIVER ROAD, SUITE 220
TUCSON, AZ 85718 (520) 881-7300

Send invoice to San Diego, CA
Attn: Accounts Payable

ORIGINAL - LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

APPENDIX B

GROUNDWATER SAMPLING FIELD FORMS

APPENDIX B

GROUNDWATER SAMPLING FIELD FORMS

(SECOND QUARTER 2011)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/23/11 TASK: 532.30 WELL ID: EW-01

Time 634 Static DTW (ft below reference point)	127.96	Casing Volume (CV) (gallons) 44.2 3 CV (gallons) 132.7	Weather Conditions	Initials AMB	
Casing Total Depth (ft below reference point) 195.23 ~~AMB~~		Purging Device Ded pump Sampling Device dedicated ~~sample pump~~	Time 640 Temp. ~63	Begin Purge 715 End Purge 726	
Water Column (feet)	67.04	Pump: Depth (ft brp) NA Type ~~Voltage~~ ~~HP~~	Skies Overcast	Gallons Purged 139 CVs Purged 3.1	
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ~~Fast~~ X	Wind (mph) 0-2 From SW	DTW (ft brp) 128.51 Time 736	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
634	127.96	PUMP OFF									Initial totalizer reading 271576 Pump on at 715
726	~~128.51~~ AMB	139	3.1	20.11	7.35	1.014	159.9	5.68	0.30		271715 11.9 gpm
											Pump off at 753

SAMPLE COLLECTION SAMPLE TIME 726

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 MOD 1,4 dioxane	2	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

EW-0100 @ 746; dup

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/24/11 TASK: 532.30 WELL ID: MW-08

Time 1100 Static DTW (ft below reference point)	141.44	Casing Volume (CV) (gallons) 3.8	3 CV (gallons) 11.4	Weather Conditions	Initials DM, AMB
Casing Total Depth (ft below reference point)	163.79	Purging Device dedicated bailer	Sampling Device ded. bailer	Time 1100 Temp. ~77	Begin Purge 1102 End Purge 1200
Water Column (feet)	22.35	Pump: Depth (ft brp) NA Type	Voltage HP	Skies clear	Gallons Purged 11.5 CVs Purged 3.0
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 0-3 From SW	DTW (ft brp) 143.49 Time 1208

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1102	BEGIN BAILING									NA	
1103	UTM	0.3	0.1	23.38	7.28	1.835	47.3	7.26	NM		
1111	UTM	2.0	0.5	23.04	7.14	2.075	56.1	5.80	NM		
1121	UTM	4.0	1.0	22.54	7.12	2.047	64.6	5.75	NM		
1130	UTM	6.0	1.5	22.30	7.11	2.027	67.3	6.12	NM		
1139	UTM	8.0	2.1	22.07	7.12	2.039	73.9	6.42	NM		Pause purge at 1142 Resume purge at 1152
1154	UTM	10.00	2.6	22.87	7.20	2.026	67.6	6.63	NM		
1200	UTM	11.5	3.0	22.96	7.11	2.045	69.4	5.73	NM	NA	Collect Sample

SAMPLE COLLECTION SAMPLE TIME 1200

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE ~~DISCHARGE WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Ducer out at 1100

Ducer in at 1210

Duplicate MW-0800 @

NM = Not measured

NA = Not Applicable

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/23/11 TASK: 532.30 WELL ID: MW-21

Time 639 Static DTW (ft below reference point)	124.60	Casing Volume (CV) (gallons) 75.5 3 CV (gallons) 226.5	Weather Conditions
Casing Total Depth (ft below reference point)	239	Purging Device Ded pump Sampling Device ded. sample port	Time Cold Temp. ~63
Water Column (feet)	114.4	Pump: Depth (ft brp) NA ~~Type~~ ~~Voltage~~ HP	Skies Overcast
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 0-2 From SW

Initials AMB

Begin Purge 715 End Purge 739

Gallons Purged 440 CVs Purged 5.8

DTW (ft brp) 137.0 Time 07:47

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
639	PUMP OFF										Initial totalizer 2670O9 PUMP ON at 715
07:32	136.7	440	5.8	21.67	7.26	1.660	162.7	4.62	0.00		~~2671375~~ AMB 18.79
											2674419
											pump off at 753

SAMPLE COLLECTION SAMPLE TIME MW-21; 739

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD ____ BREATHING ZONE ____ DISCHARGE WATER ____

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-21 @ 715; split

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/24/11 TASK: 532.30 WELL ID: MW-26C

Time 919 Static DTW (ft below reference point)	125.91	Casing Volume (CV) (gallons) ~~62.8~~ 68.4 AMB CV (gallons) 190.0	Weather Conditions	Initials AMB, DM	
Casing Total Depth (ft below reference point)	499	Purging Device ded pump Sampling Device ded tubing	Time 930 Temp. 75°	Begin Purge 922 End Purge 1016	
Water Column (feet)	370.1	Pump: Depth (ft brp) 300' Type grundfos Voltage HP	Skies clear	Gallons Purged 192.5 CVs Purged 3.0	
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-3 From SW	DTW (ft brp) 125.97 Time 1022	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
921	PUMP ON									380	3.5 gpm
922	127.07	3.5	0.05	21.94	8.66	0.559	-197.8	0.71	6.6	380	
931	127.17	35	0.5	22.38	8.06	0.737	-233.7	1.00	11	380	3.5 gpm
940	127.18	66.5	1.0	22.44	7.64	0.824	-115.6	2.99	3.9	380	3.5 gpm
949	127.16	98	1.5	22.46	7.59	0.824	-76.3	3.68	0.85	380	3.5 gpm
958	127.15	129.5	2.0	22.48	7.57	0.827	-59.0	3.63	0.60	380	3.5 GPM
1010	127.15	~~160~~ 171.5 AMB	~~2.5~~ 2.7	22.50	7.55	0.830	-49.1	3.45	4.0	380	3.5 GPM
1016	127.15	192.5	3.0	22.49	7.54	0.827	-44.2	3.46	NM	380	3.5 GPM
1017	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1016

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: ~~6/10 MB~~ 6/21/11 **TASK:** 532.30 **WELL ID:** MW-28

Time 934 Static DTW (ft below reference point)	129.12	Screen SV Casing Volume (CV) (gallons) 30 3 CV (gallons) 90	Weather Conditions Time 930 Temp. ~65°
Casing Total Depth (ft below reference point)	375	Purging Device ded. pump Sampling Device <10 ded. pipestand	Skies overcast
Screen Water Column (feet)	45	Pump: Depth (ft brp) 320 Type grundfos Voltage 240 HP	Wind (mph) 1-2 From SW
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Initials DM AMB
			Begin Purge 946 End Purge 958
			Gallons Purged 95 CVs Purged 3.2
			DTW (ft brp) 129.31 Time 1003

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
946	BEGIN PUMPING										8.5 gpm
947	133.30	85	0.3	21.56	7.46	0.868	164.1	3.35	4.6		
949	136.78	25	0.8	21.59	7.45	0.841	160.4	4.34	4.0		8.4 gpm 2.25 g/m on manual flow
951	136.88	45	1.5	21.64	7.45	0.890	158.3	6.01	1.3		8.4 gpm ~8.75 gpm
953	136.88	64	2.1	21.65	7.46	0.863	152.9	5.45	0.65		
956	136.92	80	2.7	21.66	7.46	0.851	142.9	5.69	2.1		
958	136.96	95	3.2	21.66	7.47	0.830	136.9	5.92	0.80		8.3 gpm
959	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 958

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4-Dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Displaced duce slightly during pumping

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/21/11 TASK: 532.30 WELL ID: MW-29

Time 1614 Static DTW (ft below reference point)	131.79	Screen Casing Volume (CV) (gallons) 33 3 SV (gallons) 99	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	240	Purging Device Ded. pump Sampling Device >100 psi Stand	Time 1609 Temp. ~85	Begin Purge 1620 End Purge 1644
Screen Water Column (feet)	50	Pump: Depth (ft brp) 190' Type grundfos Voltage 240 HP	Skies clear	Gallons Purged 104 CVs Purged >3
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-3 From SW	DTW (ft brp) 131.97 Time 1649

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1620	PUMP ON										
1622	138.35	6 to AMB	0.2	22.26	8.30	1.282	-28.9	4.47	12		4.5 gpm
1626	139.10	21	0.6	21.73	7.25	1.3	6.9	6.61	<5		4.5 gpm
1630	139.03	39	1.2	21.77	7.20	1.382	19.4	7.20	6.3		4.5 gpm
1634	139.06	60	1.8	21.78	7.20	1.381	14.0	7.81	4.8		4.5 gpm
1638	139.06	77	2.3	21.78	7.19	1.389	8.8	7.39	2.6		4.6 gpm
1643	139.09	102	3.1	21.77	7.18	1.342	17.7	7.41	1.9		4.6
1644	—	104	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 1643

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Ducer adjusted slightly during Purge

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: ~~9/ 7/10 AMB~~ 6/21/11 **TASK:** 532.30 **WELL ID:** MW-30A

Time 1022 Static DTW (ft below reference point)	118	Screen SV Casing Volume (CV) (gallons) 17.2	3 CV (gallons) 51.5	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	564	Purging Device Ded pump	Sampling Device ND	Time 1040 Temp. ~70	Begin Purge 1037 End Purge 1050
Screen Water Column (feet)	44	Pump: Depth (ft brp) 520 Type grundfos	Voltage 240 HP	Skies cloudy	Gallons Purged 70 CVs Purged >3
Casing Capacity (Diameter 3 ") (gallons per foot)	0.39	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 0-2 From SW	DTW (ft brp) 118.34 Time 1055

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1037	PUMP	ON	—								5 gpm
1039	119.61	9	0.5	21.99	7.49	0.817	168.3	0.95	7.4		
1041	119.83	18	1.0	21.11	8.08	0.758	158.0	1.70	8.8		5.7 gpm
1043	119.81	28	1.6	21.33	7.62	0.745	150.8	2.55	NM		5.6 gpm manual flow check (3gal/30s ~ 6 gpm
1046	119.88	46	2.7	21.49	7.54	0.724	107.2	2.59	2.7		
1048	119.85	59	3.4	21.49	7.51	0.708	75.4	2.68	0.85		5.6 gpm
1050 AMB	~~119.84~~	~~70~~	—	PUMP	OFF	—					
AMB ~~1052~~	~~PUMP OFF~~										

SAMPLE COLLECTION SAMPLE TIME 1048

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4-Dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA ~~BKGD~~ ~~BREATHING ZONE~~ ~~DISCHARGE WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Broken plug

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: ~~6~~ /10 AMB 6/21/11 **TASK:** 532.30 **WELL ID:** MW-30B

Time 1105 Static DTW (ft below reference point)	115.39	Screen SV ~~Casing~~ Volume (~~SV~~) (gallons) 37.6 3 SV (gallons) 112.8		Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	616	Purging Device ded pump Sampling Device dedicated 10-100 pipestaltz		Time 1100 Temp. 66	Begin Purge 1109 End Purge 1136
Screen Water Column (feet)	94	Pump: Depth (ft brp) 520 Type grundfos Voltage 240 HP		Skies partly cloudy	Gallons Purged 136 CVs Purged 3.3
Casing Capacity (Diameter 6 ") (gallons per foot)	0.41	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0-2 From SW	DTW (ft brp) 122.65 Time 1140

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1108	PUMP ON										5 gpm
1109	128.45	10	0.3	21.30	9.57	0.623	-203.8	1.45	7.5		
1112	130.05	20	0.5	21.16	8.96	0.772	-147.8	0.40	3.2		5 gpm
1115	131.61	33	0.9	21.40	7.95	0.990	-131.0	0.39	3.6		4.9 gpm
1119	132.91	53	1.4	21.49	7.40	1.062	-112.5	0.78	4.5		4.9 gpm
1124	134.06	78	2.1	21.54	7.28	0.969	-106.1	0.67	8.0		4.9 gpm
1129	135.09	105	2.8	21.59	7.29	0.903	-107.1	0.59	5.6		4.9 gpm
1134	135.27	130	3.5	21.63	7.29	0.859	-107.3	0.59	4.9		4.8 gpm
1136	PUMP OFF										136 gallons purged

SAMPLE COLLECTION SAMPLE TIME 1134

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4-Dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA ~~BKGD~~ BREATHING ZONE ~~DISCHARGE WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Pump set at 520' on 6/16; SV adjusted since last quarter

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/24/11 **TASK:** 532.30 **WELL ID:** MW-31

Time 743 Static DTW (ft below reference point)	108.48	Casing Volume (CV) (gallons) 79.4 3 CV (gallons) 238	Weather Conditions	Initials AHB, PM
Casing Total Depth (ft below reference point)	996	Purging Device Ded Pump Sampling Device 18-100 Dedicated PE stand	Time 745 Temp. ~68°	Begin Purge 746 End Purge 815
Screen Water Column (feet)	54	Pump: Depth (ft brp) 942 Type grundfos Voltage 240 HP	Skies overcast	Gallons Purged 263 CVs Purged 3.0
Casing Capacity (Diameter 6 ") (gallons per foot)	1.47	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 0-2 From SW	DTW (ft brp) 108.52 Time 820

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
746	PUMP	ON									9.2 gpm
748	109.82	20	0.2	21.12	7.81	0.748	142.3	0.13	5.0		9.2 GPM
752	109.81	53	0.7	20.96	7.88	0.731	136.6	0.07	0.0		9.2 GPM
756	109.82	87	1.1	21.24	7.90	1.080	-132.1	0.13	80		9.2 gpm
800	109.84	124	1.6	21.37	7.69	0.943	-103.5	0.23	7.9		9.2 gpm
804	109.84	164	2.1	21.41	7.76	0.847	108.2	0.35	6.7		9.2 GPM
808	109.84	201	2.5	21.41	7.77	0.810	-107.7	0.45	45		9.2 gpm
812	109.84	240	3.0	21.41	7.80	0.777	-111.2	0.61	7.2		
815	—	263	—	PUMP	OFF						

SAMPLE COLLECTION SAMPLE TIME 812

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/23/2011 TASK: 532.30 WELL ID: MW-32A

Time 816 Static DTW (ft below reference point)	83.85	screen Casing Volume (SV) (gallons) 204	screen ~~3 SV~~ Volume (gallons) 611	Weather Conditions	Initials DM / AMB
Casing Total Depth (ft below reference point)	905	Purging Device Peristaltic Pump	Sampling Device Disposable Bailer	Time 830 Temp. ~70	Begin Purge 834 End Purge
SCREEN Water Column (feet) 345	~~821.2~~	Pump: Depth (ft brp) 560 Type GRUNDFOS Voltage HP		Skies Overcast	Gallons Purged 614 SV CVs Purged 3
Casing Capacity (Diameter 4 Sch 80) (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0-2 From SW	DTW (ft brp) 84.25 Time 938

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
834	START PURGE										
835	85.19	12	0.06	20.80	7.54	.684	75.6	1.39	14		12.1 GPM
844	85.35	112	0.5	20.89	7.38	0.691	-151.1	1.08	19		12.1 gpm
851	85.42	212	1.0	21.04	7.38	0.693	-184.7	1.37	17		12.1 gpm
900	85.48	~~296~~ 312 AMB	1.5	21.08	7.39	0.695	-195.1	1.62	2.2		12.1 GPM
908	85.52	412	2.0	21.09	7.39	0.696	-196.2	1.74	1.9		12.1 GPM
916	85.48	512	2.5	21.09	7.38	0.696	-195.5	1.71	5.3		12.1 GPM
925	85.60	614	3.0	21.10	7.37	0.695	-194.7	1.71	0.35		
930	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 925

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Displaced ducer slightly during purge

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/23/2011 TASK: 532.30 WELL ID: MW-32B

Time 1250 Static DTW (ft below reference point)	84.28	Screen Casing Volume (CV) (gallons) 259 3 CV (gallons) 777	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	999	Purging Device Ded pump Sampling Device 10-100 pipe stand	Time 1250 Temp. ~80°	Begin Purge 1253 End Purge 1402
Screen Water Column (feet)	439	Pump: Depth (ft brp) 560 Type Grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 795+ CVs Purged 3.0
Casing Capacity (Diameter 4") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 2-5 From SW	DTW (ft brp) 85.19 Time 1411

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1253	PUMP ON										11.2 gpm
1254	96.9	17	0.1	20.86	7.61	0.745	-357.5	0.04	8.3		11 GPM
1305	102.40	135	0.5	20.97	7.65	0.703	-333.3	0.04	3.9		11.4 GPM
1317	106.35	270	1.04	21.24	7.84	0.559	-323.1	0.04	2.1		11.4 GPM
1329	105.70	405	1.5	21.35	7.79	0.643	-257.2	0.22	1.9		10.9 GPM
1340	105.89	540	2.0	21.35	7.77	0.667	-258.6	0.06	0.0		11.4 GPM
1352	106.03	675	2.5	21.36	7.76	0.680	-287.8	0.04	1.9		11.2 GPM
1402	106.44	795	3.0	21.36	7.74	0.688	-244.0	0.11	1.5		Purged over 3 gallons to account for drawdown loss
1403	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1402

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Strong odor at about 100 gallons purged (rotten eggs)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/23/2011 **TASK:** 532.30 **WELL ID:** MW-32C

Time 943 Static DTW (ft below reference point)	77.07	~~Casing~~ SCREEN Volume (CV) (gallons) 313	SCREEN x3 ~~3 CV~~ Volume (gallons) 939
Casing Total Depth (ft below reference point)	1090	Purging Device DED PUMP	Sampling Device <10 PRESTAND
SCREEN Water Column (feet)	530	Pump: Depth (ft brp) 560 Type GRUNDFOS	Voltage 240 HP
Casing Capacity (Diameter 4") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow	Fast Y

Weather Conditions: Time 945 Temp. ~70; Skies partly cloudy; Wind (mph) 1-3 From SW

Initials DM/AMB; Begin Purge 951 End Purge 1235; Gallons Purged 1190 CVs Purged 3.8; DTW (ft brp) ~~04.28~~ DUP Time 1248

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
951	PUMP ON										12 GPM
953	91.40	31	0.1	20.74	8.00	0.417	-308.5	0.07	3.7		12 gpm
1011	202.90	200	0.6	21.00	8.02	0.417	-330.2	0.02	2.8		7.5 gpm
1039	224.25	400	1.3	21.44	8.08	0.416	-300.5	0.05	8.3		7.0 gpm
1108	229.05	600	1.9	21.58	8.04	0.416	-241.2	0.22	6.6		6.7 gpm
1137	231.12	800	2.6	21.62	8.04	0.416	-252.8	0.17	6.6		10.6 GPM
1208	232.62	1000	3.2	21.64	8.04	0.416	-273.2	0.15	4.4		6.6 GPM
1235	234.17	1190	3.8	21.66	8.04	0.416	-303.4	0.01	5.0		
1237	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1235

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

940 PUMP OUT; strong odor at ~~250~~ 250 gallons

Purge ~250 gallons over 3 casings to account for drawdown loss.

Ducrin @ 1258

265 = 1204.5

1106

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/22/11 TASK: 532.30 WELL ID: MW-33

Time 1421 Static DTW (ft below reference point)	75.10	Screen SV Casing Volume (CV) (gallons) 296 3 SV (gallons) 858	Weather Conditions	Initials AMB JM	
Casing Total Depth (ft below reference point)	1,020	Purging Device ded. pump Sampling Device Peristaltic pump	Time 1430 Temp. ~80	Begin Purge 1431 End Purge 1540	
Screen Water Column (feet)	495	Pump: Depth (ft brp) 535 Type grundfos Voltage 240 HP	Skies clear	Gallons Purged 869 Vs Purged 3.0	
Casing Capacity (Diameter 4 ") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 2-4 From SW	DTW (ft brp) 76.15 Time 1543	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1431	PUMP	ON									14.5 gpm
1433	76.5	30	0.1	19.91	7.67	0.572	106.8	0.17	0.0		14.5 gpm
1437 1443	PUMP OFF										PAUSE PURGE
1442	76.20	PUMP ON - RESUME PURGE									14.9 gpm
1444	76.78	75	0.3	20.25	7.64	0.569	-188.4	1.85	0.0		14.9 gpm
1455	77.02	205	0.7	20.80	7.73	0.560	-205.3	1.97	0.0		14.9 gpm
1505	77.08	361	1.3	20.96	7.67	0.537	-215.7	2.13	0.0		14.8 gpm
1515	77.31	522	1.8	20.98	7.64	0.553	-216.0	3.09	0.0		14.9 gpm
1525	77.46	665	2.3	20.99	7.62	0.552	-210.3	2.88	0.0		14.9 gpm
1540	77.66	869	3.0	21.00	7.60	0.561	-220.2	1.01	0.0		
1541	PUMP	OFF									

SAMPLE COLLECTION SAMPLE TIME 1540

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD ~~BREATHING ZONE~~ ~~DISCHARGE WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: ~~9/ 710 AMB~~ 6/21/11 TASK: 532.30 WELL ID: MW34A

Time 1402 Static DTW (ft below reference point)	140.18	Screen Casing Volume (CV) (gallons) 47 3 CV (gallons) 142	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	200	Purging Device ded. pump Sampling Device ded. pipestand	Time 1400 Temp. 88	Begin Purge 1403 End Purge 1412
Pump set to screen Water Column (feet)	80	Pump: Depth (ft brp) 200' Type Grundfos Voltage 240 HP	Skies ~~clear~~ overcast/ partly sunny	Gallons Purged 178 CVs Purged >3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-3 From SW	DTW (ft brp) 140.25 Time 1419

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1403	Pump	ON									
1404	142.35	22	0.5	21.49	7.15	0.967	786.6	3.75	450		~~22 gals~~ 16 gpm
1406	142.45	50	1.1	21.44	7.20	0.949	-151.6	5.21	45		16 gpm
1408	142.43	78	1.7	21.46	7.19	0.933	-122.3	5.89	32		16 gpm
1410	142.46	121	2.6	21.49	7.19	0.953	-85.6	5.62	23		16 gpm
1412	142.47	155	3.3	21.49	7.19	0.954	-70.4	5.68	210		16 gpm
1414	—	178	PUMP OFF	—							

SAMPLE COLLECTION SAMPLE TIME 1412

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4-Dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA ~~BKGD~~ ~~BREATHING ZONE~~ DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Ducer out at 1359

orange color water begining purge

Ducer in at 1422

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/21/11 **TASK:** 532.30 **WELL ID:** MW-34B

Time 1442 Static DTW (ft below reference point)	142.79	Screen SV Casing Volume (CV) (gallons) 44.8 3 SV (gallons) 134.5	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	536	Purging Device Dedicated pump Sampling Device decl 10-100 pipe stand	Time 1440 Temp. 88	Begin Purge 1447 End Purge 1456
Pump Set depth to screen Water Column (feet)	76	Pump: Depth (ft brp) 460 Type grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 145 CVs Purged >3
Casing Capacity (Diameter 4") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 13 From SW	DTW (ft brp) 143.15 Time 1500

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1447	Pump ON										
1448	144.40	15	0.3 ~~21.32~~ AMB	21.32	7.37	0.796	78.5	0.48	17		15 gpm
1450	144.53	50	1.1	21.78	7.44	0.735	26.3	2.41	400		15.2 gpm
1452	144.63	80	1.8	21.84	7.44	0.717	35.8	2.27	50		15.3 gpm
1454	144.68	113	2.5	21.86	7.44	0.700	35.3	2.28	17		15.3 gpm
1456	144.69	145	3.2	21.87	7.44	0.715	32.2	2.38	11		15.3 gpm
1458	Pump OFF										

SAMPLE COLLECTION SAMPLE TIME 1456

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 MOD 1,4 dioxane	2	1 L Amber

~~DUPLICATES~~ / ~~SPLITS~~ / ~~BLANKS~~? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA ~~BKGD~~ ~~BREATHING ZONE~~ ~~DISCHARGE WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Ducer out at 1430

Ducer in at 1510

MW-34 Split at 1436

~~MW-3400B @ 1436~~ MW-34B

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: ~~9/~~ ~~10~~ AMB 6/21/11 **TASK:** 532.30 **WELL ID:** MW-34C

Time 1322 Static DTW (ft below reference point)	141.64	~~Casing~~ Screen Volume (CV) (gallons) 56.6 3 SV (gallons) 169.9	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	576	Purging Device Sed pump Sampling Device ~~ND~~ peristaltic	Time 1330 Temp. 87°	Begin Purge 1322 End Purge 1340
Screen Water Column (feet)	96	Pump: Depth (ft brp) 480 Type grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 195 CVs Purged 3.3
Casing Capacity (Diameter 4") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-3 From SW	DTW (ft brp) 144.05 Time 1346

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1326	Pump ON										14.7 gpm
1327	155.40	15	0.3	21.33	7.67	0.588	-246.4	0.66	1.0		14.7 gpm
1329	160.95	44	0.8	21.76	8.22	0.487	-308.0	0.13	2.7		
1331	162.22	72	1.3	21.91	8.42	0.477	-325.0	0.08	2.0		14.2 gpm
1333	163.90	107	1.9	21.96	7.64	0.582	-271.4	0.06	0.0		14.2 gpm
1335	163.19	131	2.3	21.98	7.60	0.573	-266.6	0.05	0.0		14.2 gpm
1337	163.46	154	2.7	21.98	7.59	0.581	-265.8	0.07	0.0		
1340	163.79	195	3.4	21.99	7.59	0.582	-243.2	0.36	0.85		14.2 gpm
1341	Pump OFF										

SAMPLE COLLECTION SAMPLE TIME 1340

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4-Dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE ~~WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Diver out at 1315
Slight rotten egg odor
diver in at 1350

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/21/11 TASK: 532.30 WELL ID: MW-35A

Time 937 Static DTW (ft below reference point)	71.55	Casing Volume (CV) (gallons) 42 3 CV (gallons) 126	Weather Conditions	Initials AMB, DM	
Casing Total Depth (ft below reference point)	471	Purging Device ded pump Sampling Device ND pipestand	Time 930 Temp. ~67	Begin Purge 952 End Purge 1012	
Water Column (feet)	71	Pump: Depth (ft brp) 440' Type grundfos Voltage 240 HP	Skies overcast	Gallons Purged 207 CVs Purged ~5	
Casing Capacity (Diameter 4 ") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-3 From SW	DTW (ft brp) 166.65 Time 1019	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
952	PUMP ON										12 gpm
953	89.50	12	0.3	20.11	7.51	0.887	169.2	0.24	<5		11.9 gpm
956	UTM	47	1.1	20.24	7.38	0.793	19.8	1.49	<5		10.8 gpm
958	141.50	68	1.6	20.29	7.40	0.810	-7.3	0.98	<5		
1002	169.45	105	2.5	20.32	7.39	0.835	-17.6	0.63	5.5		9.9 gpm
1005	177.10	140	3.3	20.35	7.38	0.854	-10.5	0.66	<5		9.8 gpm
1009	182.47	175	4.1	20.37	7.37	0.844	-7.5	1.25	5.5		9.6 gpm
1012	187.05	207	4.9	20.39	7.36	0.831	-7.3	0.76	<5		9.2 gpm
1011	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1012

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD BREATHING ZONE DISCHARGE WATER

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)
Purged 5 screen volumes to calculate for drawdown.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/22/11 TASK: 532.30 WELL ID: MW-35B

Time 1029 Static DTW (ft below reference point)	78.70	Casing Volume (CV) (gallons) 203.7 3 CV (gallons) 610.6	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	805.3	Purging Device ded pump Sampling Device ND pipe stand	Time 1030 Temp. 75	Begin Purge 1044 End Purge 1120
Water Column (feet)	345.3	Pump: Depth (ft brp) 460' Type grundfos Voltage 240 HP	Skies partly overcast	Gallons Purged 620 CVs Purged > 3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 0-2 From SW	DTW (ft brp) 78.80 Time 1136

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1044	PUMP ON										175 gpm
1046	82.30	34	0.2	20.10	7.44	0.873	-182.0	1.75	14		strong odor - rotten egg
1051	82.49	120	0.6	20.44	7.57	0.671	-226.0	0.40	8.3		17.6 gpm
1056	82.60	220	1.1	20.54	7.48	0.803	-210.0	1.90	3.5		17.6 gpm
1109	82.65	340	1.6 ~~2.7~~ AMB	20.53	7.43	0.711	-181.0	1.83	13		17.9 gpm
1108	92.65	430	2.1	20.52	7.42	0.643	-179.1	1.61	0.3		17.9 gpm
1114	92.66	520	2.5	20.52	7.42	0.814	175.1	1.56	0.54		17.8 gpm
1120	92.66	620	3.0	20.51	7.40	0.750	-178.7	1.67	1.0		
1122	Pump OFF										

SAMPLE COLLECTION SAMPLE TIME 1120

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA ~~BKGD~~ ~~BREATHING ZONE~~ ~~DISCHARGE WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Diver out @ 1030. Shortened diver by 15' (see xd notebook)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 6/22/11 TASK: 532.30 WELL ID: MW-35

Time 1149 Static DTW (ft below reference point)	80.45	Screen SV Casing Volume (SV) (gallons) 342 3 SV (gallons) 1026	Weather Conditions
Casing Total Depth (ft below reference point)	1040	Purging Device ded pump Sampling Device ND pipestand	Time 1200 Temp. ~80
Screen Water Column (feet)	580	Pump: Depth (ft brp) 4160' Type grundfos Voltage 240 HP	Skies clear
Casing Capacity (Diameter 4 ") (gallons per foot)	0.59	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 2-4 From SW

Initials AHB, DM
Begin Purge 1153 End Purge 1253
Gallons Purged 1029 CVs Purged 3
DTW (ft brp) 81.16 Time 1257

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1153	PUMP ON										18.1 gpm
1154	83.11	27	0.08	20.10	7.40	0.826	-142.1	0.91	8.4		18.4 gpm
1204	83.28	197	0.4	20.53	7.39	0.814	-101.7	0.69	3.9		17 gpm
1215	83.33	367	1.1	20.65	7.51	0.629	-64.0	3.71	12		17 gpm
1225	83.41	537	1.6	20.67	7.51	.631	-16.3	3.72	6.5		17.1 gpm
1234	83.50	707	2.1	20.68	7.52	0.639	2.1	3.63	4.0		17.1 gpm
1244	83.64	877	2.6	20.68	7.51	0.632	14.1	3.57	2.3		17.3 gpm
1253	83.69	1029	3.0	20.68	7.51	0.626	19.0	3.63	1.8		
1255	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1253

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT N/A ~~BKGD~~ ~~BREATHING ZONE~~ ~~DISCHARGE WATER~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

APPENDIX B

GROUNDWATER SAMPLING FIELD FORMS

(THIRD QUARTER 2011)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 2/11 **TASK:** 532.30 **WELL ID:** MW-08

Time 1445 Static DTW (ft below reference point)	139.86	Casing Volume (CV) (gallons) 4.1	3 CV (gallons) 12.2	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	163.79	Purging Device ded. bailer	Sampling Device ded. bailer	Time 1445 Temp. ~90°	Begin Purge 1447 End Purge 1602
Water Column (feet)	23.9	Pump: Depth (ft brp) NA	Type Voltage HP	Skies Cloudy	Gallons Purged 12.2 CVs Purged 3.0
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 2-4 From SW	DTW (ft brp) 140.74 Time ~~1613~~ 1611

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1447	NM	0.25	0.1	23.29	7.26	1.325	87.2	6.34	23.8	NA	
1457	NM	2.5	0.6	22.18	7.19	1.675	68.7	6.55	47.6		
1515	NM	5.0	1.2	23.41	7.14	1.734	69.8	7.23	44.3		Pause Purge 1517 Resume Purge at 1530
1540	NM	7.5	1.8	22.06	7.31	1.747	88.1	6.54	53.9		
1548	NM	10.0	2.4	22.02	7.14	1.728	64.7	7.14	52.2		
1602	NM	12.2	3.0	21.97	7.13	1.747	48.8	5.71	46.0		Collect Sample

SAMPLE COLLECTION SAMPLE TIME 1602

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Casing bent. Use dedicated bailer.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 2 /11 **TASK:** 532.30 **WELL ID:** MW-09

Time 1045 Static DTW (ft below reference point)	161.73	Casing Volume (CV) (gallons) 5.0	3 CV (gallons) 15	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	191	Purging Device Ded. bailer	Sampling Device ded. bailer	Time 1100 Temp. ~85	Begin Purge 1041 End Purge 1212
Water Column (feet)	29.27	Pump: Depth (ft brp) NA Type	Voltage HP	Skies clear	Gallons Purged 15.0 CVs Purged 3.0
Casing Capacity (Diameter 2 ") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 3-5 From SW	DTW (ft brp) 161.72 Time 1220

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1046	BEGIN BAILING										
1048	NM	0.25	0.05	24.48	7.02	2.322	108.4	2.65	104	NA	
1100	NM	3.0	0.6	23.86	7.02	2.167	-73.0	2.21	125	NA	
1117	NM	6.0	1.2	24.47	7.23	1.458	71.0	1.79	85.2	NA	Pause Purge Resume purge at 1130
1141	NM	9.0	1.8	25.94	7.19	1.514	30.1	2.23	61.2	NA	
1155	NM	12.0	2.4	25.52	7.30	1.353	45.9	2.15	67.3	NA	
1212	NM	15.0	3.0	25.64	7.25	1.134	6.6	2.18	91.9	NA	Collect sample

SAMPLE COLLECTION SAMPLE TIME 1212

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Casing bent. Must use dedicated bailer.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/2/11 **TASK:** 532.30 **WELL ID:** MW-15

Time 1250 Static DTW (ft below reference point)	140.89	Casing Volume (CV) (gallons) 4.4	3 CV (gallons) 13.2	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	166.8	Purging Device Ded. bailer	Sampling Device ded. bailer	Time 1245 Temp. ~85	Begin Purge 1253 End Purge 1400
Water Column (feet)	25.9	Pump: Depth (ft brp) NA Type	Voltage HP	Skies clear, humid	Gallons Purged 13.2 CVs Purged 3.0
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-3 From SW	DTW (ft brp) 141.05 Time 1412

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1253	BEGIN BAILING								27.0 AMB		
1255	NM	0.25	0.1	27.09	7.34	1.176	86.7	6.84	27.0		
1302	NM	2.5	0.6	23.69	7.33	1.239	31.2	6.45	217		
1313	NM	5.0	1.1	23.85	7.12	1.223	1.9	5.54	249		
1321	NM	7.5	1.7	23.27	7.17	1.230	-12.7	5.92	249		1325 Pause Purge 1330 Resume Purge
1344	NM	10.5	2.3	23.78	7.32	1.230	25.6	5.93	197		
1400	NM	13.2	3.0	22.70	7.27	1.235	33.0	6.19	182		Collect Sample

SAMPLE COLLECTION SAMPLE TIME 1400

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Casing bent. use dedicated bailer.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 5 /11 **TASK:** 532.30 **WELL ID:** MW-16

Time 1441 Static DTW (ft below reference point)	131.24	Casing Volume (CV) (gallons) 31.7	3 CV (gallons) 95	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	178.5	Purging Device redi flo	Sampling Device decl. tubing	Time 1440 Temp. ~90	Begin Purge 1458 End Purge 1536
Water Column (feet)	47.26	Pump: Depth (ft brp) 176 Type Grundfos Voltage HP		Skies clear	Gallons Purged 96 CVs Purged 3.03
Casing Capacity (Diameter 4 ") (gallons per foot)	0.67	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 2-5 From SW	DTW (ft brp) 131.30 Time 1549

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1458	START PUMPING									320	3gpm
1501	VTM	9	0.3	25.43	7.68	0.787	27.8	5.10	32.1	320	
1506	VTM	24	.75	22.49	7.49	0.752	24.9	3.73	5.78		
1511	VTM	39	1.23	22.46	7.45	0.762	25.1	3.85	1.67		
1516	VTM	54	1.7	22.44	7.44	0.777	24.8	4.09	>5		
1521	VTM	69	2.2	22.43	7.43	0.795	29.0	4.25	>5		
1526	VTM	81	2.6	22.43	7.43	0.814	39.6	4.50	>5		
1531	VTM	96	3.0	22.43	7.42	0.831	36.1	4.51	>5		
1535	Sample Time										

SAMPLE COLLECTION SAMPLE TIME 1535

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

UTM = unable to measure

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 3 /11 **TASK:** 532.30 **WELL ID:** MW-18

Time 828 Static DTW (ft below reference point)	127.29	Casing Volume (CV) (gallons) 44.7 3 CV (gallons) 134.1	Weather Conditions Time 830 Temp. ~80°
Casing Total Depth (ft below reference point)	194	Purging Device Radiflo Sampling Device Dedi tubing	Skies Clear
Water Column (feet)	66.7	Pump: Depth (ft brp) 192 Type Grundfos Voltage 240 HP	Wind (mph) 1-4 From SW
Casing Capacity (Diameter 4") (gallons per foot)	0.67	Monitor Well Recharge Rate: Slow Fast X	Initials DM, AMB
			Begin Purge 850 End Purge 1012
			Gallons Purged 135 CVs Purged 3.0
			DTW (ft brp) 151.55 Time 1026

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
850	START PUMPING									320	3 gpm
853	144.35	9	0.2	21.65	6.86	1.201	195.1	7.74	24.4	320	2.5 gpm at 853
904	153.60	36.5	0.8	22.31	7.08	1.022	146.6	5.53	8.23	320	2.0 gpm
914	159.69	56.5	1.3	22.38	7.14	1.116	110.5	7.08	3.61	320	1.5 gpm
924	161.95	71.5	1.6	22.46	7.18	1.161	101.8	8.58	7.47	320	1.5 gpm
937	164.1	91	2.0	22.53	7.19	1.193	70.5	7.98	6.02	320	1.5 gpm
950	165.53	107.25	2.4	22.61	7.21	1.233	57.5	7.71	15.5	320	1.25 GPM
1003	167.20	123.5	2.8	22.62	7.23	1.242	71.8	8.22	20.7	320	1.25 GPM
1012	168.35	135	3.0	22.67	7.23	1.245	47.1	7.16	NM	320	
1013	PUMP	OFF									

SAMPLE COLLECTION SAMPLE TIME 1012

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

RB-080311 at 830 am taken from pump

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/5/11 **TASK:** 532.30 **WELL ID:** MW-20

Time 935 Static DTW (ft below reference point)	156.68	Casing Volume (CV) (gallons) 25	3 CV (gallons) 75	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	194	Purging Device grundfos redi-flo	Sampling Device ded. tubing	Time 930 Temp. ~85°	Begin Purge 1115 End Purge 1232
Water Column (feet)	37.3	Pump: Depth (ft brp) ~192' Type grundfos	Voltage HP	Skies clear	Gallons Purged 76 CVs Purged 3.0
Casing Capacity (Diameter 4") (gallons per foot)	0.67	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 1-3 From SW	DTW (ft brp) 159.55 Time 1247

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
~~1025~~ 1115 pmp	DUMP ON									330	1.5 gpm
1118	160	4.5	0.2	23.27	7.72	0.810	38.0	5.55	45.4	330	1125 pump off - troubleshoot
~~1125~~	NM	15	PAUSE PURGE								1148 pump on/off pump pump on at 1154
~~1154~~ 1148 pmp	UTM	15	0.6	23.56	7.61	0.806	30.1	7.24	40.4	330	
1202	UTM	27	1.1	23.26	7.59	0.806	3.8	6.60	24.6	330	
1210	UTM	39	1.6	23.14	7.59	0.807	0.6	6.16	12.4	330	
1218	UTM	51	2.0	23.11	7.58	0.806	-6.0	5.96	7.59	330	
1226	UTM	63	2.5	23.08	7.58	0.804	-6.6	6.17	6.8	330	
1232	UTM	76	3.0	23.08	7.56	0.805	-2.9	6.26	NM	330	Collect sample
1233	DUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1232

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Water on top of casing. Well previously bailed, required pumping due to increase in water level.

Rinse blank RB-080511 collected at 1010

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-26C

Time 1840 Static DTW (ft below reference point)	127.33	Casing Volume (CV) (gallons) 63.2	3 CV (gallons) 189.6	Weather Conditions	Initials AHB, BM
Casing Total Depth (ft below reference point)	499	Purging Device ded pump	Sampling Device ded tubing	Time 1900 Temp. ~80	Begin Purge 1900 End Purge 1946
Water Column (feet)	371.67	Pump: Depth (ft brp) 300' Type grundfos Voltage 240 HP		Skies clear	Gallons Purged 190 CVs Purged 3.0
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 2-6 From SW	DTW (ft brp) 127.27 Time 1955

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1900	PUMP	ON								380	3.75 gpm
1902	128.40	7.5	0.1	22.06	8.29	0.906	-182.5	0.31	<5	380	3.75
1910	128.45	67.5	0.6	22.11	8.23	0.902	-273.6	0.26	0.21	380	3.75 gpm
1918	128.43	67.5	1.1	22.15	7.61	1.160	-127.3	3.64	<5	380	3.75 gpm
1926	128.41	97.5	1.5	22.17	7.57	1.163	-99.1	3.85	<5	380	3.75 gpm
1934	128.41	137.5	2.1	22.18	7.56	1.164	-90.4	3.91	<5	380	3.75 gpm
1942	128.41	167.5	2.7	22.17	7.54	1.164	-82.5	4.04	<5	380	3.75 gpm
1948	128.41	190	3.0	22.17	7.54	1.164	-81.1	4.06	<5	380	3.75 gpm
1949	PUMP	OFF									

SAMPLE COLLECTION SAMPLE TIME 1948

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/05/11 **TASK:** 532.30 **WELL ID:** MW-28

Time 0910 Static DTW (ft below reference point)	131.60	Casing Volume (CV) (gallons) 27	3 CV (gallons) 81	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	375	Purging Device ded. pump	Sampling Device ded. sample pump	Time 0929 Temp. 70	Begin Purge 0916 End Purge 0927
SCREEN Water Column (feet)	45	Pump: Depth (ft brp) ____ Type grundfos Voltage 240 HP ____		Skies Sunny	Gallons Purged 92 CVs Purged ____
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 0 From 0	DTW (ft brp) 131.72 Time 0931

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
916	131.60	0	0	—	Begin	pumping	—				Q = 8.8
0918	139.45	20	0.7	21.60	7.66	0.674	-42.7 ~~0.674~~ (EJH)	4.72	0.70		
0919	139.71	32	1.2	21.62	7.65	0.678	-38.1	5.12	NM		
0920	139.86	42	1.6	21.64	7.58	0.734	-35.5	6.06	0.65		Q = 8.8
0922	139.79	54	2.0	21.66	7.55	0.741	-34.0	6.09	1.00		
0923	139.80	64	2.4	21.67	7.54	0.746	-33.3	6.34	1.01		
0925	139.81	81	3.0	21.67	7.53	0.746	-32.9	6.33	0.65		
0927	139.80	92	3.4	—	Pump	off	—				

SAMPLE COLLECTION SAMPLE TIME 0926

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	~~2~~ 1	1 L Amber
	~~Not Filtered~~	

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

~~AIR MONITORING PID/FID ppm:~~ ~~VAULT~~ NA ~~BKGD~~ NA ~~BREATHING ZONE~~ NA ~~DISCHARGE WATER~~ NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 05 /11 **TASK:** 532.30 **WELL ID:** MW-29

Time 1115 Static DTW (ft below reference point)	134.74	Casing Volume (CV) (gallons) 30	3 CV (gallons) 90	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	240	Purging Device del pump	Sampling Device del pipe stool	Time 1125 Temp. 75	Begin Purge 1124 End Purge 1148
SCREEN Water Column (feet)	50	Pump: Depth (ft brp) ____ Type grundfos Voltage 240 HP ____		Skies sunny	Gallons Purged 121 CVs Purged 4
Casing Capacity (Diameter ") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 0 From 0	DTW (ft brp) 134.82 Time 1152

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1124	134.74	0	0	—	Begin Purging				—		Q = 4.5gpm
1126	141.79	10	0.3	22.17	7.88	0.958	-27.3	1.91	8.0		
1129	142.08	25	0.9	21.86	7.47	1028	-20.4	7.62	18		
1132	142.11	38	1.3	21.89	7.32	1075	-21.0	8.92	2.9		Q = 4.2gpm
1136	142.09	56	1.9	21.89	7.29	1.076	-20.2	9.32	3.8		
1140	142.12	79	2.6	21.90	7.24	1.098	-21.0	9.64	6.6		
1144	142.10	98	3.3	21.90	7.25	1.101	-21.3	9.54	6.2		
1148	142.11	121	4.0	—	Pump off	—	—	—	—		

SAMPLE COLLECTION SAMPLE TIME 1145

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

DUP MW-2900 @1130
SPT MW-29 @1145

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/05/11 **TASK:** 532.30 **WELL ID:** MW-3017

Time 1325 Static DTW (ft below reference point)	121.71	Casing Volume (CV) (gallons) 17.2	3 CV (gallons) 51.5	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	564	Purging Device del Pump	Sampling Device ND	Time 1327 Temp. 75	Begin Purge 1330 End Purge 1343
SCREEN Water Column (feet)	44	Pump: Depth (ft brp)	Type Grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 72 CVs Purged 4.2
Casing Capacity (Diameter ") (gallons per foot)	0.39	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 2 From SSW	DTW (ft brp) 121.75 Time 1349

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1330	121.71	Ø	Ø	—	Begin Purging						Q = 5.3 gpm
1332	123.53	9.5	0.5	22.03	7.80	0.610	48.1	1.64	2.5		
1333	123.55	15	0.9	21.44	8.57	0.590	-22.3	1.99	7.9		
1335	123.58	26	1.5	21.50	7.93	0.588	-5.6	2.74	3.4		
1337	123.58	37	2.2	21.72	7.64	0.583	-14.8	3.24	7.7		
1339	123.59	48	2.8	21.74	7.58	0.581	-16.6	3.41	6.3		Q = 5.2 gpm
1341	123.57	59	3.5	21.73	7.57	0.580	-18.1	3.42	4.9		
1343	123.58	72	4.2	— Pump	off	—	—	—	—		

SAMPLE COLLECTION SAMPLE TIME 1342

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
	↳ sample not collect	

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

~~AIR MONITORING~~ PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA ~~DISCHARGE WATER~~ NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/05/11 **TASK:** 532.30 **WELL ID:** MW-30B

Time 1353 Static DTW (ft below reference point)	119.11	Casing Volume (CV) (gallons) 37	3 CV (gallons) 112
Casing Total Depth (ft below reference point)	616	Purging Device ded. pump	Sampling Device 10400
300.00 Water Column (feet)	94	Pump: Depth (ft brp)	Type Grundfos Voltage 240 HP
Casing Capacity (Diameter 3 ") (gallons per foot)	0.39	Monitor Well Recharge Rate: Slow	Fast X

Weather Conditions: Time 1355 Temp. 75; Skies SUNNY; Wind (mph) 2 From SW

Initials EJH; Begin Purge 1359 End Purge 1429; Gallons Purged 137 CVs Purged; DTW (ft brp) 124.33 Time 1437

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1359	119.11	Ø	Ø	—	Begin Pumping	—					Q = 5.1 gpm
1402	125.06	15	0.4	21.76	7.99	0.903	-20.2	4.26	4.8		Q = 4.7 gpm
1406	137.00	33	0.9	21.72	8.00	0.892	-32.1	2.51	2.4		↓
1410	139.58	50	1.3	21.84	7.50	0.901	-26.0	3.44	29		Q = 4.1 gpm
1415	139.38	72	2.0	21.92	7.45	0.810	-25.3	3.08	60		
1420	140.2	92	2.5	21.97	7.44	0.788	-27.6	2.67	5.6		
1425	140.81	125	3.1	22.08	7.42	0.787	-27.5	1.97	3.1		
1429	NM	137	3.7	—	Finish Purging	—					

SAMPLE COLLECTION SAMPLE TIME 1425

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

DUP MW-3000B @ 1400
SPT MW-30B @ 1425

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/05/11 **TASK:** 532.30 **WELL ID:** MW-31

Time 1000 Static DTW (ft below reference point)	111.71	Casing Volume (CV) (gallons) 79.4	3 CV (gallons) 238	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	996	Purging Device ded. pump	Sampling Device NA	Time 1002 Temp. 72	Begin Purge 1006 End Purge 1033
SCREEN Water Column (feet)	54	Pump: Depth (ft brp)	Type grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 2.2 CVs Purged 3.3
Casing Capacity (Diameter 6 ") (gallons per foot) 1.47	1.5 @	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 0 From SE	DTW (ft brp) 111.85 Time 1040

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1006	111.71	0	0	— Begin	Purging	—					Q=10 gpm
1007	113.20	10	0.1	21.17	7.85	0.641	-41.7	0.50	11		Q=9.66 gpm
1011	113.21	49	0.6	21.04	7.87	0.629	-42.4	0.14	0.15		Q=9.8 gpm
1015	113.21	89	1.1	21.33	8.04	0.822	-44.8	0.42	13		Q=8.8 gpm
1019	113.23	130	1.6	21.41	7.84	0.690	-43.1	0.63	13		Q=9.8 gpm
1023	113.24	172	2.1	21.43	7.87	0.641	-43.2	0.72	4.6		Q=9.7 gpm
1027	113.25	210	2.6	21.41	7.83	0.609	-42.7	0.81	2.6		
1031	113.24	251	3.1	21.40	7.84	0.599	-42.6	0.86	4.6		
1033	113.25	262	3.3	—	Pump off	—					

SAMPLE COLLECTION SAMPLE TIME 1032

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

~~AIR MONITORING PID/FID ppm: VAULT~~ NA ~~BKGD~~ NA ~~BREATHING ZONE~~ NA ~~DISCHARGE~~ WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 3 /11 — 88.64 — **TASK:** 532.30 — **WELL ID:** MW-32A

Time 1143 Static DTW (ft below reference point)	~~168.64~~ screen SV	Casing Volume (CV) (gallons) 207	3 CV (gallons) 621	Weather Conditions	Initials RAB, DM
Casing Total Depth (ft below reference point)	905	Purging Device Ded pump	Sampling Device ND pipestand	Time 1200 Temp. ~85	Begin Purge 1157 End Purge 1242
pump screen Water Column (feet)	345	Pump: Depth (ft brp) 560 Type grundfos	Voltage 240 HP	Skies clear	Gallons Purged 644 CVs Purged 3.0
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-6 From SW	DTW (ft brp) 89.81 Time 1249

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1157	PUMP	ON									~~0.7~~ gpm 14 gpm - manual measurement
1159	91.17	45.7	0.2	20.67	7.61	0.933	-316.1	1.00	3.18		
1208	91.24	~~136~~ 172	0.8	20.78	7.44	0.940	-245.9	1.65	1.89		
1217	91.29	~~220~~ 298 gallons	1.4	20.92	7.40	0.941	-218.7	1.85	1.43		298 gallons 14 GPM
1226	91.33	413	2.0	20.93	7.22	0.941	-226.2	1.95	2.73		
1235	91.34	533	2.6	20.93	7.13	0.941	217.3	2.09	~~0.88~~		14 GPM
1242	91.38	~~506~~ 644 gallons	3.0	20.93	7.08	0.940	-208.1	2.00	NM		14 GPM collect sample
1243	PUMP	OFF									

SAMPLE COLLECTION SAMPLE TIME ~~1245~~ 1242

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 3 /11 **TASK:** 532.30 **WELL ID:** MW-32B

Time 1302 Static DTW (ft below reference point)	88.64	Screen SV Casing Volume (cv) (gallons)	263.4	3 CV (gallons)	790
Casing Total Depth (ft below reference point)	999	Purging Device Ded. pump	Sampling Device	10-100 ded. pipe/hand	
Pump - Screen Water Column (feet)	439	Pump: Depth (ft brp) 560	Type Grundfos	Voltage 240	HP
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow		Fast X	

Weather Conditions: Time 1300 Temp. 85-90; Skies clear; Wind (mph) 0-5 From SW

Initials AMB, DM; Begin Purge 1334 End Purge 1434; Gallons Purged 798 CVs Purged 3.0; DTW (ft brp) 89.90 Time 1439

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1334	PUMP	ON									~13.6 gpm
1336	107.80	41.3	0.2	20.65	7.56	0.982	-324.1	0.08	16.2		
1346	111.87	170.5	0.6	20.80	7.38	0.937	-313.8	0.03	8.76		13.2 gpm
1358	112.40	321	1.2	21.12	7.46	0.953	-289.3	0.02	2.10		13.2 gpm
1410	112.83	436	1.8	21.19	7.44	1.034	-263.8	0.48	5.75		13.3 gpm
~~1418~~ MP		~~579~~	~~2.2~~								13.3 ,
1422	113.19	642	2.4	21.20	7.41	1.033	-275.1	0.02	1.23		13.3 gpm
1434	113.35	798	3.0	21.20	7.43	1.032	-273.2	0.02	0.92		13.3 gpm collect sample
1436	PUMP	OFF									

SAMPLE COLLECTION SAMPLE TIME 1434

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 3 /11 **TASK:** 532.30 **WELL ID:** MW-32C

Time 1448 Static DTW (ft below reference point)	74.22	~~Casing~~ Volume (CV) (gallons) 318	3 CV (gallons) 954
Casing Total Depth (ft below reference point)	1090	Purging Device Bed. Pump	Sampling Device ND Pipestand
pump-screen Water Column (feet)	530	Pump: Depth (ft brp) 560' bls	Type grundfos Voltage 240 HP
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow	Fast X

Weather Conditions: Time 1500 Temp. ~90; Skies Clear; Wind (mph) 1-5 From SW

Initials AMB DM

Begin Purge 1507 End Purge 1714

Gallons Purged 1060 CVs Purged 3.3

DTW (ft brp) 201.55 Time 1722

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1507	PUMP	ON									14.4 GPM
1509	104.80	19	0.06	20.61	7.83	0.557	-337.7	0.52	4.22		9.4 GPM
1525	212.10	175	0.6	20.88	7.70	0.560	-324.3	0.02	2.37		~~9.4~~ 8.11 GPM
1541	234.26	338	1.1	21.16	7.81	0.559	-294.6	0.51	1.08		7.7gpm
1559	238.98	473	1.5	21.44	8.04	0.559	-315.4	0.02	6.03		7.6 gpm
1613	241.63	623	2.0	21.53	8.05	0.559	-296.4	0.06	13.8		7.5 gpm
1637	243.14	773	2.4	21.55	8.07	0.559	-311.0	0.01	13.3		7.4 GPM
1654	244.31	923	2.8	21.54	8.07	0.560	-297.7	0.06	17.6		7.3 GPM
1714	245.03	1060	3.3	21.51	8.08	0.560	-304.7	0.02	7.51		Collect sample
1715	PUMP	OFF									

SAMPLE COLLECTION SAMPLE TIME 1714

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Purged over 3 casing volumes to account for losses from drawdown

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-33

Time 1624 Static DTW (ft below reference point)	85.74	Screen SV Casing Volume (CV) (gallons) 291 3 CV (gallons) 873	Weather Conditions Time 1630 Temp. ~87
Casing Total Depth (ft below reference point)	1020	Purging Device ded. pump Sampling Device ded. pipe	Skies Clear
JMP-Screen Water Column (feet)	484	Pump: Depth (ft brp) 535 Type grundfos Voltage 240 <10 HP	Wind (mph) 2-5 From SW
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X	Initials AMB, DM Begin Purge 1653 End Purge 1738 Gallons Purged 780 CVs Purged 3.0 DTW (ft brp) 85.88 Time 1748

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1653	PUMP ON										
1654	87.57	20	0.1	19.59	7.90	0.708	-53.0	1.90	0.93		19.6 GPM
1701	87.73	152	0.5	20.39	7.34	0.708	-250.7	0.36	<5		19.6 GPM
1708	87.81	284	1.0	20.63	7.50	0.703	-241.4	0.60	<5		19.6 GPM
1715	87.84	431	1.5	20.73	7.50	0.700	-234.7	0.71	<5		19.6 GPM
1722	87.85	555	1.9	20.74	7.52	0.698	-228.0	0.63	<5		19.6 GPM
1729	87.89	699	2.4	20.75	7.54	0.705	-232.7	0.62	<5		19.6 GPM
1738	87.91	880	3.0	20.75	7.57	0.699	-236.5	0.72	<5		19.6 GPM Collect sample
1739	PUMP OFF										19.6 GPM

SAMPLE COLLECTION SAMPLE TIME 1739

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/4/11 **TASK:** 532.30 **WELL ID:** MW-34A

Time 1347 Static DTW (ft below reference point)	144.28	Screen SV Casing Volume (CV) (gallons) 48	3 CV (gallons) 144	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	280	Purging Device Sled, pump	Sampling Device ND pipestake	Time 1345 Temp. ~90°	Begin Purge 1348 End Purge 1356
Screen Water Column (feet)	80	Pump: Depth (ft brp) 200 Type Grundfos	Voltage 240 HP	Skies Clear	Gallons Purged 170.5 CVs Purged 3.5
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-5 From NW	DTW (ft brp) 144.33 Time 1500

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1348	START DUMPING										
1349	146.85	22	0.5	21.17	7.22	1.361	-204.9	4.30	4.8		21.2 GPM
1351	146.90	53	1.1	21.21	7.18	1.366	-173.8	4.58	88		21.2 GPM
1353	146.96	95	2.0	21.23	7.13	1.367	-157.0	4.61	43.8		
1355	146.94	141	2.9	21.23	6.97	1.363	-125.1	4.58	115		
1356	146.97	170.5	3.5	21.24	6.94	1.364	-114.8	4.61	36.7		21.2 GPM Collect sample
1358	PUMP	OFF									

SAMPLE COLLECTION SAMPLE TIME 1356

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

~~Purged over 3 screen volumes to account for drawdown loss~~ AMB

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-34B

Time 1417 Static DTW (ft below reference point)	148.12	Screen ~~Casing~~ Volume (CV) (gallons) 45.7 3 CV (gallons) 137	Weather Conditions
Casing Total Depth (ft below reference point)	536	Purging Device ded pump Sampling Device ded. pipestand	Time 1417 Temp. 90°
pump–Screen Water Column (feet)	76	Pump: Depth (ft brp) 460' Type grundfos Voltage 240 HP 10-100	Skies clear
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 1-5 From NW

Initials AMB, BM

Begin Purge 1423 End Purge 1434

Gallons Purged 64 CVs Purged 3.6

DTW (ft brp) 148.27 Time 1454

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1423	PUMP ON										
1424	150.02	20	0.4	21.06	7.34	0.968	-196.2	0.76	15.3		19.8 GPM
1426	150.21	54	1.2	21.48	7.31	1.105	-185.7	4.02	380		20.1 GPM
1428	150.33	92	2.0	21.56	7.24	1.122	-167.6	4.15	42.1		19.4 GPM
1430	150.44	131	2.8	21.58	7.18	1.123	-151.2	4.21	42		19.6 GPM
1432	150.48	164	3.6	21.58	7.18	1.123	-143.8	4.24	20.2		Collect sample
1434	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1432

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Cloudy tan-orange color water at approx. 50 gallons

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-34C

Time 1300 Static DTW (ft below reference point) 148.33
Casing Total Depth (ft below reference point) 576
Pump-Screen Water Column (feet) 96
Casing Capacity (Diameter 4 ") (gallons per foot) SCH 80 0.60

Screen Casing Volume (1V) (gallons) 57.7 3 CV (gallons) 173
Purging Device ded pump Sampling Device ded ND Pipestand
Pump: Depth (ft brp) 480 Type Grundfos Voltage 240 HP
Monitor Well Recharge Rate: Slow ____ Fast X

Weather Conditions
Time 1300 Temp. ~90°
Skies Clear
Wind (mph) 1-5 From SW

Initials AMB, DM
Begin Purge 1313 End Purge 1323
Gallons Purged 175 CVs Purged 3.0
DTW (ft brp) 148.50 Time 1505

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1313	START PUMPING										
1315	167.85	20	0.4	21.11	7.84	0.770	-311.5	0.60	<5		18.9 GPM
1317	171.92	61	1.1	21.61	8.17	0.607	-347.0	0.12	<5		
1319	173.24	109	1.9	21.69	7.61	0.715	-301.8	0.08	<5		19.5 GPM
1321	173.83	140	2.4	21.71	7.31	0.767	-285.1	0.06	1.12		19.5 GPM
1323	174.32	175	3.0	21.71	7.29	0.773	-283.2	0.05	<5		Collect Sample
1324	Pump OFF										

SAMPLE COLLECTION SAMPLE TIME 1323

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-35A

Time 810 Static DTW (ft below reference point)	77.56	Screen Casing Volume (CV) (gallons) 42 Items SV 3 CV (gallons) 126	Weather Conditions: Time 810 Temp. ~78°
Casing Total Depth (ft below reference point)	470	Purging Device Ded. pump Sampling Device ded. pipestand	Skies Clear
pump-Screen ~~Volume~~ Water Column (feet)	70	Pump: Depth (ft brp) 400 Type Grundfos Voltage HP	Wind (mph) 1-2 From SW
Casing Capacity (Diameter 4") (SCH 80) (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X	DTW (ft brp) 76.44R Time 1055

Initials AM-B, DM

Begin Purge 820 End Purge 835

Gallons Purged 199 CVs Purged 4.7

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
820	BEGIN PUMPING										
821	97.35	24.0	0.6	20.00	7.33	1.158	28.1	0.73	5.30		13.5 gpm
823	129.03	46	1.1	19.96	7.34	1.069	-91.4	1.26	1.49		13.1 gpm
825	154.68	71.5	1.7	19.98	7.36	1.061	-80.6	1.76	1.8		12.4 gpm
827	169.14	99	2.4	20.02	7.39	1.053	-137.1	1.35	1.43		12 gpm
829	178.31	122	2.9	20.04	7.41	1.091	-162.8	0.85	3.02		11.7 gpm
831	183.62	~~120~~ 146	3.4	20.06	7.40	1.136	-173.6	0.76	<5		11.5 gpm
833	190.24	169	4.0	20.08	7.40	1.140	-181.6	0.73	<5		11.3 gpm
835	195.52	199	4.7	20.10	7.39	1.141	-183.5	0.77	<5		11.1 gpm
~~837~~	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 835

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Purged over 3 screen volumes to account for drawdown losses

R = recovering

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-35B

Time 845 Static DTW (ft below reference point)	83.98 Screen Casing Volume (CV) (gallons) 207 3 CV (gallons) 621	Weather Conditions	Initials DM, MLB
Casing Total Depth (ft below reference point)	805 Purging Device Ded. pump Sampling Device ded ND Peristaltic	Time 900 Temp. ~80	Begin Purge 849 End Purge 917
Screen Water Column (feet)	345 Pump: Depth (ft brp) 460' Type Grundfos Voltage 240 HP	Skies Clear	Gallons Purged 650 CVs Purged 3.1
Casing Capacity (Diameter 4 SCH 80 ") (gallons per foot)	0.60 Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 1-4 From SW	DTW (ft brp) 84.05 Time 1050

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
849	Begin Pumping										
850	88.77	41	0.2	19.98	7.44	1.133	-317.1	0.60	1.64		22.8 gpm
855	88.88	150	0.7	20.14	7.58	0.890	-268.9	0.36	0.82		22.8 gpm
900	88.99	260	1.2	20.20	7.39	1.116	-219.7	1.85	22.2		22.8 gpm
905	89.03	371	1.8	20.20	7.36	1.136	-206.7	1.67	44.3		
910	89.07	483	2.3	20.20	7.43	1.155	-203.7	1.55	4.45		23.1 gpm
915	89.11	619	3.0	20.20	7.42	1.169	-198.9	1.46	UTM		20.0 gpm
917	89.11	650	3.1	20.20	7.43	1.171	-197.4	1.49	3.29		Collect sample
919			Pump off								

SAMPLE COLLECTION SAMPLE TIME 917

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

odor - rotten egg smell at 100 gallons purge

Purged over 3 ~~casings~~ screen volumes to account for drawdown.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-35C

Time 932 Static DTW (ft below reference point)	88.69	Screen Casing Volume (CV) (gallons) 348 3 CV (gallons) 1044	Weather Conditions
Casing Total Depth (ft below reference point)	990	Purging Device Dedi Pump Sampling Device ND pipestand	Time 930 Temp. ~90
Screen Water Column (feet)	580	Pump: Depth (ft brp) 1040 Type grundfos Voltage 240 HP	Skies clear
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-6 From NW

Initials AMB, DM
Begin Purge 945 End Purge 1037
Gallons Purged 1056 CVs Purged 3.0
DTW (ft brp) 88.77 Time 1046

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
945	START PUMPING										22.1 gpm
946	91.83	22.	0.06	19.87	7.44	1.033	-85.2	1.98	<5		
954	92.06	211	0.6	20.20	7.36	1.013	-53.4	1.46	2.59		22.4 gpm
1002	92.14	406	1.2	20.33	7.40	0.823	-41.1	3.95	<5		
1010	92.16	580	1.7	20.34	7.48	0.823	-20.0	3.93	<5		22.5 gpm Pump off @ 1013
1020	Resume Pumping										
1025	92.12	768	2.2	20.33	7.30	0.822	9.6	3.97	<5		23.3 gpm
1032	92.13	943	2.7	20.36	7.35	0.820	6.2	4.01	11.3		
1037	92.16	1050	3.0	20.37	7.46	0.819	-7.7	3.99	<5		23 gpm Collect sample
1038	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1037

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 2 /11 **TASK:** 532.30 **WELL ID:** MW-21

Time 813 Static DTW (ft below reference point)	135.24 (pumping)	Casing Volume (CV) (gallons) 68.5	3 CV (gallons) 205	Weather Conditions
Casing Total Depth (ft below reference point)	239	Purging Device ~~Deapump~~	Sampling Device ded. Sample pump	Time 830 Temp. 30°
Water Column (feet)	103.8	Pump: Depth (ft brp) NA Type ~~Type~~	Voltage ~~Voltage~~ HP ~~HP~~	Skies Clear
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ___	Fast X	Wind (mph) 1-2 From SW

Initials AMB, DM

Begin Purge 802 End Purge 830

Gallons Purged 495 CVs Purged 7.2

DTW (ft brp) 136.01 Time 830

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
745											745 totalizer 2601706 (pump off)
~~747~~											~~747 Pump on~~
802	Pump ON										802 18.58 gpm
830	136.01	495	7.2	21.93	6.97	1.559	128.1	4.88	0.03	—	2602201 18.52 gpm
852	Pump OFF										852 shut off pump

SAMPLE COLLECTION SAMPLE TIME 830

ANALYSIS	QUANTITY	TYPE
8260B VOCs	9	40 ml VOA
8270 SIM 1,4 dioxane	3	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA NA ~~BKGD NA~~ ~~BREATHING ZONE NA~~ ~~DISCHARGE WATER NA~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-2100 @ 900; MW-21 (split) @ 910

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 8/ 2 /11 **TASK:** 532.30 **WELL ID:** ~~MW-21 AMB~~ EW-01

Time 818 Static DTW (ft below reference point) ~~129.57~~ 135.24 (pumping) AMB

Casing Total Depth (ft below reference point) 195

Water Column (feet) 65.43

Casing Capacity (Diameter 4 ") (gallons per foot) 0.66

Casing Volume (CV) (gallons) 43.2 3 CV (gallons) 129.6

Purging Device Ded pump. Sampling Device ded, Sample

Pump: Depth (ft brp) NA Type ~~Voltage~~ port HP

Monitor Well Recharge Rate: Slow ___ Fast X

Weather Conditions: Time 815 Temp. 80° Skies Clear Wind (mph) 1-2 From SW

Initials AMB MER

Begin Purge 802 End Purge 843

Gallons Purged 608 CVs Purged 14.1

DTW (ft brp) 129.59 Time 843

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
745	PUMP OFF										745 totalizer 272015 (pump off)
802	PUMP ON										Pump on at ~~747 AMB~~ 802 ~~18.56~~ gpm 12.58 gpm
843	129.59	608	14.1	22.32	7.56	0.862	118.1	8.83	0.48		272623 12.48 gpm
											852 Pump off

SAMPLE COLLECTION SAMPLE TIME 843

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

APPENDIX B

GROUNDWATER SAMPLING FIELD FORMS

(FOURTH QUARTER 2011)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 4 /11 **TASK:** 532.30 **WELL ID:** MW-08

Time 940 Static DTW (ft below reference point)	136.78	~~Screen~~ ~~SVAMB~~ Casing Volume (1V) (gallons)	4.6	3 ~~CV~~ SVAMB (gallons)	13.8
Casing Total Depth (ft below reference point)	163.79	Purging Device ded bailer		Sampling Device ded. bailer	
~~Screen~~ - ~~Pumping~~ Water Column (feet)	27.0	Pump: Depth (ft brp) NA	Type	Voltage	HP
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow		Fast X	

Weather Conditions	Initials AMB & DM
Time 1000 Temp. ~65°	Begin Purge 944 End Purge 1045
Skies Clear, sunny	Gallons Purged 13.8 CVs Purged 3.0
Wind (mph) 1-3 From S-SW	DTW (ft brp) 136.78 Time 1113

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
944	BEGIN BAILING										
946	NM	0.25	0.1	20.81	7.06	1.262	69.3	6.39	20.0		
953	NM	2.25	0.5	20.88	7.21	1.617	58.2	6.43	123		
1005	NM	5.5	1.2	20.28	7.39	1.436	65.9	6.91	133		
1018	NM	7.8	1.7	20.87	7.15	1.876	88.9	6.41	65.9		
1029	NM	10.0	2.1	19.31	7.19	1.776	89.7	6.32	65.4		
1045	NM	13.8	3.0	20.57	7.26	1.550	73.9	6.55	68.4		

SAMPLE COLLECTION SAMPLE TIME 1045

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-0800 DUP collected @ 1035

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 1 /11 **TASK:** 532.30 **WELL ID:** MW-21

Time 1423 Static DTW (ft below reference point)	131.93	Casing Volume (CV) (gallons) 70.7	3 CV (gallons) 212	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	239	Purging Device Ded pump	Sampling Device ded sample port	Time 1420 Temp. ~80°	Begin Purge 1419 End Purge 1445
Water Column (feet)	107.07	Pump: Depth (ft brp) NA Type	Voltage HP	Skies Clear, sunny	Gallons Purged 429 CVs Purged 6.1
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-2 From S-SW	DTW (ft brp) 133.14 Time 1446

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1419	Pump	ON									263627 19 gpm
											263845
1442	NM	429	6.1	22.18	7.08	1.887	63.1	5.01	4.9		264056 18.9 gpm
1445	Pump OFF										

SAMPLE COLLECTION SAMPLE TIME 1442

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 1 /11 TASK: 532.30 WELL ID: MW-26C

Time 1528 Static DTW (ft below reference point)	125.37	Casing Volume (CV) (gallons) 63.5	3 CV (gallons) 190.6	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	499	Purging Device ded pump	Sampling Device ded tubing	Time 1530 Temp. ~80°	Begin Purge 1558 End Purge
Water Column (feet)	373.6	Pump: Depth (ft brp) 300' Type grundfos	Voltage 240 HP	Skies clear sunny	Gallons Purged 204 CVs Purged 3
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-3 From SW	DTW (ft brp) 125.49 Time 1748

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1556	PUMP	ON									PUMP OFF
1558	PUMP	ON									2 GPM
1600	125.94	4	.06	22.04	9.21	0.493	-259.2	0.08	4.4	310	2GPM
1615	126.03	34	.5	22.37	7.77	0.815	-148.2	0.83	1.9	310	
1630	126.05	64	1.0	22.41	7.50	0.958	-81.3	5.21	5.1	310	2GPM
1645	126.08	94	1.5	22.43	7.47	0.967	-52.0	4.80	0.85	310	2GPM
1700	126.10	124	2.0	22.43	7.45	0.968	-41.2	5.31	2.8	310	2GPM
1715	126.10	154	2.5	22.44	7.43	0.970	-32.1	5.61	4.9	310	
1734	126.14	192	3.02	22.44	7.45	0.970	-40.0	8.06	5.1		
1740	—	Pump	OFF								

SAMPLE COLLECTION SAMPLE TIME 1734

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) AMB (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MS & MSD (see blank log form)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 3 /11 TASK: 532.30 WELL ID: MW-28

Time 928 Static DTW (ft below reference point)	129.38	Casing Volume (CV) (gallons) 27	3 CV (gallons) 81
Casing Total Depth (ft below reference point)	375	Purging Device ~~0-10 DED PUMP PIPE STAND~~	Sampling Device 0-10 DED PIPE STAND
Screen Water Column (feet)	45	Pump: Depth (ft brp) 330' Type GRUNDFOS	Voltage 240 HP
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow	Fast X

Weather Conditions: Time 916 Temp. 70° Skies OVERCAST Wind (mph) 0-5 From N6

Initials AMB & DM: Begin Purge 930 End Purge 942 Gallons Purged 99 CVs Purged 3.6 DTW (ft brp) 130.52 Time 946

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
930	STATIC		PURGE								9.2 GPM < 5 PSI
931	136.98	9	0.3	21.65	8.49	1.042	59.4	4.45	14		
933	138.47	25	0.9	21.60	8.86	1.013	58.5	4.24	13		8.9 GPM
935	138.63	42	1.6	21.55	8.81	1.058	66	5.07	17		8.9 GPM
937	138.71	62	2.3	21.56	8.82	1.063	63.6	5.42	7.3		
939	138.74	74	2.7	21.57	8.82	1.064	59.1	5.55	6.0		
940	138.77	83	3.1	21.57	8.83	1.064	54.2	5.73	NM		
942	NM	99	PUMP	OFF							

SAMPLE COLLECTION SAMPLE TIME 940

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

PH READING HIGH -1.28 CORRECTION @ 7 PH

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 3 /11 **TASK:** 532.30 **WELL ID:** MW-29

Time 1016 Static DTW (ft below reference point)	~~132.93~~ ~~137.13~~ 132.98	Screen Casing Volume (SV) (gallons) 30 3 SV (gallons) 90	Weather Conditions Time 1023 Temp. 75°
Casing Total Depth (ft below reference point)	240	Purging Device DED PUMP Sampling Device PRE STAND	Skies scattered clouds/sunny
SCREEN Water Column (feet)	50	Pump: Depth (ft brp) 190' Type GRUNDFOS Voltage 220 HP	Wind (mph) 0-5 From W
Casing Capacity (Diameter ") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow Fast X	Initials AMB & DM
			Begin Purge 1025 End Purge 1045
			Gallons Purged 94 CVs Purged 3.1
			DTW (ft brp) 132.98 Time 1054

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1025											4.8GPM <5 PSI
1027	140.45	9	0.3	21.52	7.77	1.339	53.8	4.86	14		
1030	140.81	22	0.7	21.66	7.25	1.370	43.4	6.59	8		4.8GPM
1033	140.83	38	1.3	21.69	7.24	1.391	39.2	6.92	4.0		
1036	140.88	55	1.8	21.70	7.24	1.388	33.0	7.83	7.9		4.8 gpm
1039	140.89	67	2.2	21.70	7.23	1.387	29.4	7.79	7.2		
1042	140.89	81	2.7	21.71	7.23	1.386	28.7	7.90	7.1		
1045	140.91	94	3.1	21.72	7.24	1.385	30.0	7.89	7.2		
1048	NM	107	PUMP	OFF							

SAMPLE COLLECTION SAMPLE TIME 1045

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	~~2~~	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 2 /11 11935 II TASK: 532.30 WELL ID: MW-30A

Time 1425 Static DTW (ft below reference point)	~~191.35~~	Casing Volume (CV) (gallons) 17.2	3 CV (gallons) 51.5
Casing Total Depth (ft below reference point)	564	Purging Device dedpump	Sampling Device 0-10 Ded. pipestand
Screen-pump Water Column (feet)	44	Pump: Depth (ft brp) 520'	Type Grundfos Voltage 240 HP
Casing Capacity (Diameter 3") (gallons per foot)	0.39	Monitor Well Recharge Rate: Slow	Fast X

Weather Conditions: Time 1425 Temp. ~ Skies clear, sunny Wind (mph) 1-20 From E-SE

Initials AMB & DM: Begin Purge 1426 End Purge 1438 Gallons Purged 55 CVs Purged 3.2 DTW (ft brp) 119.48 Time 1445

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1426	PUMP ON										5.4 gpm <5 PSI
1428	121.14	7	0.4	21.87	7.68	0.804	25.8	2.00	8.4		
1430	121.14	16	0.9	21.25	8.77	0.706	-69.7	1.64	24		
1432	121.17	25	1.5	21.40	7.76	0.694	-44.5	1.27	32		
1434	121.19	36	2.0	21.60	7.59	0.698	-27.9	1.27	12		
1436	121.20	45	2.6	21.55	7.57	0.698	-30.9	1.33	11		5.4 gpm
1438	121.23	55	3.2	21.56	7.57	0.698	-32.5	1.33	7.5		
1440	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1438

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~1~~ 0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 2 /11 **TASK:** 532.30 **WELL ID:** MW-30B

Time 1452 Static DTW (ft below reference point)	116.37	Casing Volume (CV) (gallons) 37	3 CV (gallons) 112	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	616	Purging Device ded pump	Sampling Device Dedicated 10-1/4" pipestand	Time 1500 Temp. ~80°	Begin Purge 1455 End Purge 1515
Screen-pump Water Column (feet)	94	Pump: Depth (ft brp) 520' Type grundfos Voltage 240 HP		Skies Sunny, clear	Gallons Purged 120.5 CVs Purged 3.0
Casing Capacity (Diameter 3") (gallons per foot)	0.39	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 2-15 From E-SE	DTW (ft brp) 120.57 Time 1530

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1455	BEGIN PURGE										
1456	127.78	7	0.2	22.25	7.44	1.098	17.1	2.71	11		5.5 GPM < 5 PSI
1459	133.40	22	0.6	21.32	7.39	1.210	-4.6	0.54	9.4		5.3 GPM
1502	135.08	37	1.0	21.54	7.31	1.394	-4.7	2.70	9.0		~~5.5 GPM~~ 5.1 GPM
1506	136.54	58	1.6	21.60	7.32	1.190	8.4	3.46	60		
1510	137.81	87	2.3	21.63	7.38	1.089	3.3	2.47	25		5.2 GPM
1515	138.41	113	3.0	21.64	7.37	1.094	0.5	2.30	17		138.67 FT @ 1516
1517	NM	123	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 1515

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1	1 L Amber
8270 MOD 1,4 dioxane	~~0~~	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

~~MW-3000B~~ MW-3000B @ 1535

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 3 /11 **TASK:** 532.30 **WELL ID:** MW-31

Time 754 Static DTW (ft below reference point)	109.97	Casing Volume (CV) (gallons) 79.4	3 CV (gallons) 238	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	996	Purging Device ded. pump	Sampling Device Dedicated Bladder	Time 900 Temp. ~ 68°	Begin Purge 815 End Purge 837
screen-pump Water Column (feet)	54	Pump: Depth (ft brp) 942' Type Grundfos	Voltage 240 HP 3100	Skies Clear	Gallons Purged 240 CVs Purged 3.0
Casing Capacity (Diameter 6 ") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 1-2 From S	DTW (ft brp) 109.44 Time 846

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
815	PUMP	ON									11.4 gpm 7 PSI
817	111.04	12	0.15	21.00	8.76	0.804	78.4	0.17	4.2		
821	111.11	69	0.9	21.11	10.29	1.306	-65.2	0.18	130		11.4 gpm
825	111.13	110	1.4	21.26	9.54	1.051	-28.0	0.48	23		11.4 gpm
829	111.16	152	1.9	21.30	9.46	0.953	17.8	0.66	17		
833	111.18	210	2.6	21.33	9.25	0.878	10.1	0.81	8.3		
~~835~~	~~111.18~~	~~240~~		~~21.33~~	~~9.17~~						AMB
837	111.18	~~238~~ AMB	3.0	21.34	9.23	0.849	9.8	0.88	7.5		240 gallons
839	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME ~~835~~ AMB 837

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	~~2~~ 1	1 L Amber
8270 MOD 1,4 dioxane	2	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-31 @ 847 split Collected

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 3 /11 **TASK:** 532.30 **WELL ID:** MW-32A

Time 1143 Static DTW (ft below reference point)	87.45	Casing Volume (CV) (gallons) Screen 207 SV	3 CV (gallons) SV 621	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	905	Purging Device ded pump	Sampling Device Dedicated ND pipestand	Time 1200 Temp. ~80°	Begin Purge 1153 End Purge 1243
screen-pump Water Column (feet)	345	Pump: Depth (ft brp) 560' Type grundfos	Voltage 240 HP	Skies Clear/Sunny	Gallons Purged 6.5 CVs Purged 3.1
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-5 From S-SW	DTW (ft brp) 88.74 Time 1250

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1153	PUMP ON										13.1 GPM 11 PSI
1154	88.93	114	0.1	20.57	725	0.802	32.4	-21.6	7.4		13.5 GPM
1203	89.16	161	0.8	20.91	7.44	0.805	68.4	1.73	3.5		13.5 GPM
1213	89.21	274	1.3	21.03	7.41	0.805	-95.1	1.91	8.7		
1223	89.22	390	1.9	21.08	7.42	0.804	-104.9	1.95	7.1		13.5 GPM
1233	89.26	538	2.6	21.07	7.43	0.803	-103.6	1.98	7.5		13.5 GPM
1243	89.27	651	3.1	21.08	7.44	0.803	-106.8	2.01	8.06		
1245	NM	682	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 1243

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 3 /11 86.25 MB TASK: 532.30 WELL ID: MW-32B

Time 1552 1557 MB Static DTW (ft below reference point) 88.29	Screen Casing Volume (CV) (gallons) 263.4 3 CV (gallons) 790	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point) 999	Purging Device ded pump Sampling Device ded. >100 pipestand	Time ~1600 Temp. 70°	Begin Purge 1557 End Purge 1703
Screen-pump Water Column (feet) 439	Pump: Depth (ft brp) 560' Type grundfos Voltage 240 HP	Skies clear, sunny	Gallons Purged 8 1/2 CVs Purged 3.1
Casing Capacity (Diameter 4 ") (gallons per foot) 0.6	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 2-6 From S-SW	DTW (ft brp) 87.47 Time 1715

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1557	PUMP ON										
1558	103.63	14	0.05	20.69	8.13	0.877	-193.2	0.33	9.03		12.8 gpm 12 PSI
1608	111.12	137	0.5	20.90	7.90	0.843	-272.2	0.40	10.80		
1618	111.84	262	1.0	21.15	8.05	0.758	-269.1	0.03	8.60		
1628	112.29	382	1.5	21.29	7.93	0.865	-242.5	0.03	7.97		12.4 gpm 9 PSI
1638	112.64	520	2.0	21.29	7.90	0.865	-233.2	0.02	6.68		12.4 gpm 9 PSI
1648	112.81	645	2.5	21.30	7.86	0.865	-228.8	0.02	9.68		12.4 gpm
1703	113.05	816	3.1	21.29	7.86	0.863	-168.1	0.65	8.91		
1705	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1703

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~1~~ 0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Purged over 3 casing volumes to account for drawdown losses.

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 3 /11 **TASK:** 532.30 **WELL ID:** MW-32C

Time 1303 Static DTW (ft below reference point)	68.42	Screen ~~Casing~~ Volume (~~CV~~) (gallons) 318 3 SV (gallons) 954	Weather Conditions
Casing Total Depth (ft below reference point)	1090	Purging Device ded pump Sampling Device Ded ND pipestand	Time 1300 Temp. ~80°
Screen-pump Water Column (feet)	530	Pump: Depth (ft brp) 500' Type Grundfos Voltage 240 HP	Skies Sunny
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 1-5 From S-SW

Initials AMB & DM

Begin Purge 1305 End Purge 1536

Gallons Purged 1070 CVs Purged 3.4

DTW (ft brp) 148.38 Time 1550

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1305	PUMP	ON									13.8 gpm 15 PSI
1306	91.55	15	0.05	20.73	8.44	0.479	-203.0	0.08	29.8		13.8 strong odor - sulfur
1321	213.38	161	0.5	21.00	8.35	0.480	-207.6	0.03	37.3		7.2
1345	244.88	352	1.1	21.31	8.48	0.479	-235.7	0.03	15.8		6.8 GPM
1409	249.35	510	1.6	21.59	8.50	0.478	-246.9	0.03	17.2		6.7 GPM <5 PSI
1433	251.13	670	2.1	21.64	8.51	0.478	-214.7	0.03	6.85		6.4 GPM
1458	252.36	830	2.6	21.64	8.50	0.478	-207.0	0.04	11.4		
1520	252.96	950	2.9	21.64	8.49	0.478	-211.3	0.02	12.6		6.4 GPM
1536	253.95	1070	3.4	21.64	8.50	0.478	-211.7	0.02	7.79		6.4 GPM
1538	NM	1085	PUMP	OFF							

SAMPLE COLLECTION SAMPLE TIME 1536

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

ducer out @ 1301; ducer in at 1555

Purged over 3 casing volumes to compensate for drawdown losses

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 2 /11 **TASK:** 532.30 **WELL ID:** MW-33

Time 1205 Static DTW (ft below reference point)	81.53	Screen Casing Volume (CV) (gallons) 291	3 CV (gallons) 873	Weather Conditions
Casing Total Depth (ft below reference point)	1020	Purging Device Ded pump	Sampling Device Pipestaltic	Time 1215 Temp. ~80°
Screen-pump Water Column (feet)	484	Pump: Depth (ft brp) 535' Type grundfos	Voltage 240' HP	Skies clear, sunny
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-20 From E-SE

Initials AMB & DM

Begin Purge 1218 End Purge 1302

Gallons Purged 880 CVs Purged 3.0

DTW (ft brp) 82.17 Time 1306

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1218	BEGIN PURGE										19.9 gpm 32 PSI
1219	83.67	40	.13	20.02	7.93	0.604	-187	0.56	9.2		
1226	83.93	193	.66	20.78	7.67	0.604	-192.1	0.06	7.9		19.6 gpm 30 PSI
1233	84.01	285	.97	20.92	7.72	0.595	-189.2	0.08	8.8		20.1 gpm
1240	84.06	426	1.5	20.98	7.65	0.603	-167.2	0.43	5.2		20 GPM 30PSI
1247	84.14	557	1.9	20.99	7.64	0.604	-154.3	0.64	5.6		20.1 GPM 30PSI
1254	84.18	710	2.4	20.98	7.63	0.606	-147.2	0.46	10		20.1 GPM 30PSI
1302	84.28	880	3.0	20.99	7.62	0.607	-146.2	0.48	7.6		20.1 GPM
1307	NM	908	PUMP	OFF							

SAMPLE COLLECTION SAMPLE TIME 1302

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Strong odor in water ~ 50 gallons

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 2 /11 **TASK:** 532.30 **WELL ID:** MW-34A

Time 925 Static DTW (ft below reference point)	142.13	Screen SV Casing Volume (CV) (gallons) 48 3 CV (gallons) 144		Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	280	Purging Device sled pump Sampling Device ND pipe stand		Time 930 Temp. ~73°	Begin Purge 937 End Purge 945
Screen-pump Water Column (feet)	80	Pump: Depth (ft brp) 200' Type grundfos Voltage 240 HP		Skies clear, sunny	Gallons Purged 156 CVs Purged 3.3
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 1-25 From E-SE	DTW (ft brp) 142.27 Time 953

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
937	PUMP	ON	~~143.96~~	~~21.7~~	~~7.30~~	~~1.182~~	~~158.3~~	~~4.71~~	~~380~~ NM		21.8gpm 32 PSI
938	143.96	22	0.5	21.7	7.30	1.182	-158.3	4.71	380		
939	144.50	68	1.4	21.48	7.30	1.188	-130.8	4.84	131		slowed flow rate, valved back 17.5 60 PSI
941	144.32	90	1.9	21.54	7.30	1.188	-87.1	4.91	75		17.6 gpm 58 PSI
943	144.54	120	2.5	21.55	7.30	1.186	-80.5	4.83	95		17.6 gpm
945	144.55	156	3.3	21.55	7.30	1.184	-66.0	4.99	55		17.6 gpm
946	NM	166	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 945

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 2 /11 **TASK:** 532.30 **WELL ID:** MW-34B

Time 1004 Static DTW (ft below reference point)	146.49	screen SV Casing Volume (ØV) (gallons) 46	3 SV (gallons) 137	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	536	Purging Device sled pump	Sampling Device sled pipe sub	Time 1005 Temp. ~79°	Begin Purge 1009 End Purge 1018
Screen-pump Water Column (feet)	76	Pump: Depth (ft brp) 460' Type grundfos Voltage 240	>100 ppm HP	Skies clear/sunny	Gallons Purged 142 CVs Purged 3.
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 1-25 From E-SE	DTW (ft brp) 146.77 Time 1022

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1009	PUMP	ON									19.7 gpm 30 PSI
1010	148.42 ~~19~~ NM	19	0.4	23.79	7.40	1.076	-7.0	6.92	16		valve back-flow 16.3 50 psi
1012	148.51	52	1.1	21.72	7.41	1.095	-145.1	4.75	850		16.3 50 psi
1014	148.68	79	1.7	21.83	7.42	1.018	-108.6	4.77	80		16.3 gpm
1016	148.77	113	2.5	21.86	7.43	1.010	-86.7	4.83	24		16.3 gpm
1018	148.78	142	3.1	21.88	7.43	1.009	-70.1	4.99	16		
1020	NM	183	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 1018

ANALYSIS	QUANTITY	TYPE
8260B VOCs	6	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane	2	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

~~MW-34B~~ AMB @ 1038

MW-34B

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 2 /11 **TASK:** 532.30 **WELL ID:** MW-34C

Time 828 Static DTW (ft below reference point)	145.50	Screen SV Casing Volume (CV) (gallons) 57.7 3 CV (gallons) 173	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	576	Purging Device ded pump Sampling Device ded ND	Time 830 Temp. ~70°	Begin Purge 851 End Purge 901
Pump-Screen Water Column (feet)	96	Pump: Depth (ft brp) 480 Type Grundfos Pipestand Voltage 240 HP	Skies Clear Sunny, E-SE	Gallons Purged 179 CVs Purged 3.0
Casing Capacity (Diameter 4 " SCH 80) (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 1-25 From ~~SSW~~	DTW (ft brp) 156.80R Time 904

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
851	PUMP ON										
853	NM	19	0.3	21.31	7.44	0.664	-224	0.31	58		19.1 gpm
855	172.82	64	1.1	21.79	8.24	0.495	-293.0	0.09	~~50~~ ADD		18.9 gpm 25 PSI 5 NTU
857	173.60	96	1.7	21.84	7.77	0.642	-243.9	0.07	8.9		18.8 gpm
859	174.08	140	2.4	21.85	7.65	0.656	-230.2	0.05	9.9		18.8 gpm
901	174.30	179	3.1	21.86	7.62	0.660	-225.7	0.04	7.5		18.8 gpm
903	NM	200	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 901

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~1~~	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Strong odor to water (rotten egg smell)

ducer pulled during sampling and purge

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 1 /11 TASK: 532.30 WELL ID: MW-35A

Time 920 Static DTW (ft below reference point)	72.40	Screen Casing Volume (CV) (gallons) 42 3 CV (gallons) 126	Weather Conditions
Casing Total Depth (ft below reference point)	470	Purging Device ded pump Sampling Device ded. ND	Time 920 Temp. ~65°
Pump-Screen Water Column (feet)	70	Pump: Depth (ft brp) 400 Type grundfos Voltage pipestand HP	Skies Overcast
Casing Capacity (Diameter 4") (gallons per foot) SCH 80	0.6	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-2 From SW

Initials AMB & DM

Begin Purge 946 End Purge 1003

Gallons Purged ~199 CVs Purged 4.7

DTW (ft brp) 108.4 Time 1013

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
946	Pump ON										
948	NM	23	0.5	20.03	7.22	0.890	-54.7	0.67	9.57		14 gpm
950	144.6	64.9	1.5	20.16	7.31	0.894	-198.5	1.57	8.25		13.2 gpm 8 psi
953	169.2	92.4	2.2	20.18	7.32	0.892	-196.8	1.42	6.87		12.6 gpm
955	180.35	~~134.7~~ AMB 2.7		20.20	7.36	0.887	-201.6	0.81	5.34		12.2 gallons purged ~ 116
957	187.2	136.4	3.2	20.23	7.36	0.905	-199.5	0.67	3.93		
1000	196.55	178.2	4.2	20.26	7.34	0.919	-194.5	0.68	6.94		11.5 gpm
1003	201.25	~~235.3~~ AMB 4.7		20.28	7.32	0.919	-189.1	0.71	5.39		11.5 gallons purged ~ 199
1005	NM	222.2	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 1004

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	Ø	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Purged over 3 casing volumes to compensate for drawdown losses.

Ducer reset in well at 1016

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 1 /11 TASK: 532.30 WELL ID: MW-35B

Time 1020 Static DTW (ft below reference point)	80.68	Screen ~~Casing~~ Volume (CV) (gallons) 207 5Y 3 CV (gallons) 621	Weather Conditions
Casing Total Depth (ft below reference point)	805	Purging Device Ded pump Sampling Device Dedicated ND pipestand	Time 1020 Temp. ~70°
Screen - pump Water Column (feet)	345	Pump: Depth (ft brp) 460' Type grundfos Voltage 240 HP	Skies Clear, Sunny
Casing Capacity (Diameter SCH 80 4 ") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 1-3 From SW

Initials AMB & DM

Begin Purge 1030 End Purge 1056

Gallons Purged 658 CVs Purged 3.2

DTW (ft brp) 80.98 Time 1105

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1030	PUMP	ON									30 psi
1031	86.09	24.2	0.1	20.11	7.46	0.863	-278.0	0.05	11.1		24.9 gpm
1035	86.30	127.6	0.6	20.24	7.51	0.767	-252.1	0.04	4.31		24.9
1039	86.41	239.8	1.2	20.38	7.48	0.835	-172.4	1.71	18.6		24.3
1043	86.48	338.8	1.6	20.40	7.37	0.959	-131.4	1.55	13.5		25.2 30 psi
1047	86.53	436.1	2.1	20.40	7.37	0.981	-125.1	1.43 15.9%	12.6		~~25.1 psi~~ 24.3 gpm
1051	86.54	536.8	2.6	20.41	7.37	0.991	-124.7	1.66	4.86		24.3 gpm
1056	86.55	657.8	3.2	20.41	7.37	1.000	-116.0	1.32	1.9		
1058	NM	716.1	PUMP	OFF							

SAMPLE COLLECTION SAMPLE TIME 1056

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~0~~	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Purged over 3 casings to compensate for drawdown losses

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/1/11 TASK: 532.30 WELL ID: MW-35C

Time 1107 Static DTW (ft below reference point)	84.89	Screen Casing Volume (CV) (gallons) 348	3 CV (gallons) 1044	Weather Conditions
Casing Total Depth (ft below reference point)	990	Purging Device Ded pump	Sampling Device ND pipe stand	Time 1100 Temp. ~72°
Screen - Pump Water Column (feet)	580	Pump: Depth (ft brp) 1040 Type Grundfos	Voltage 240 HP	Skies Clear, Sunny
Casing Capacity (Diameter 4 Sch 80 ") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-3 From SW

Initials AMB & DM

Begin Purge 1154 End Purge 1240

Gallons Purged 1050 CVs Purged 3.0

DTW (ft brp) 85.42 Time 1243

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1143	PUMP ON										PUMP OFF @ 1143
1154	PUMP ON										22.8 gpm
1155	88.38	35	0.1	20.10	7.34	0.879	22.3	1.65	14		35 gal 22.7 gpm 32 PSI
1202	88.72	191	0.5	20.40	7.31	0.865	1.6	1.44	6.12		22.9 gpm
1209	88.75	338	0.9	20.55	7.42	0.707	-5.5	3.55	6.9		22.44 gpm
1216	88.76	505	1.5	20.59	7.47	0.703	12.7	3.61	6.5		
1223	88.82	680	2.0	20.59	7.47	0.703	14.5	3.83	8.4		23 gpm 32 PSI
1230	88.84	867	2.3	20.59	7.47	0.703	16.7	3.62	5.9		23 gpm
1240	88.87	1050	3.0	20.59	7.48	0.703	15.3	3.59	6.7		23 gpm
1241	NM	1070	PUMP OFF								

SAMPLE COLLECTION SAMPLE TIME 1240

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~1~~ 0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 11/ 1 /11 **TASK:** 532.30 **WELL ID:** EW-01

Time 1417 Static DTW (ft below reference point)	126.79	Casing Volume (CV) (gallons) 45.0	3 CV (gallons) 135	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	195	Purging Device ded pump	Sampling Device ded sample port	Time 1415 Temp. ~80°	Begin Purge 1419 End Purge 1423
Water Column (feet)	68.2	Pump: Depth (ft brp) NA Type	Voltage HP	Skies Clear, Sunny	Gallons Purged 168 CVs Purged 3.7
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-2 From SW	DTW (ft brp) 127.32 Time 1424

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1419	Pump ON										273106 12.12 gpm
											273243
1423	NM	168	3.7	22.41	7.27	1.105	78.8	8.34	4.8		273274
1445	Pump OFF										

SAMPLE COLLECTION SAMPLE TIME 1423

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	2	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

APPENDIX B

GROUNDWATER SAMPLING FIELD FORMS

(FIRST QUARTER 2012)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 6 /12 **TASK:** 532.30 **WELL ID:** EW-01

Time 1610 Static DTW (ft below reference point)	119.84	Casing Volume (CV) (gallons) 49.6	3 CV (gallons) 148.8	Weather Conditions	Initials DM, AMB
Casing Total Depth (ft below reference point)	195	Purging Device ded pump	Sampling Device sample port	Time 1600 Temp. ~75	Begin Purge 1555 End Purge 1610
Water Column (feet)	75.16	Pump: Depth (ft brp) NA Type	Voltage HP	Skies Clear, sunny	Gallons Purged 170 ~~3.4~~ CVs Purged 3.4
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 0-2 From SW	DTW (ft brp) 119.84 Time 1616

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1555	PUMP	ON									273431 @ 1555 (pump off)
1610	119.84	170	3.4	21.49	6.91	1.249	133.1	6.43	0.0		273601 11.20gpm
1617	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1610

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-06

Time 1713 Static DTW (ft below reference point)	150.57	Casing Volume (CV) (gallons) 6.5 3 CV (gallons) 19.6	Weather Conditions	Initials DM/AMS	
Casing Total Depth (ft below reference point)	188.92	Purging Device grundfos pump Sampling Device ded. tubing	Time 1715 Temp. ~65	Begin Purge 1738 End Purge 1805	
Water Column (feet)	38.35	Pump: Depth (ft brp) 187' Type redi-flo Voltage 240 HP	Skies clear	Gallons Purged 20.5 CVs Purged 3.0	
Casing Capacity (Diameter ") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 0-5 From SW	DTW (ft brp) 153.05 Time 1819	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1738	PUMP	ON								297	0.9 gpm
1739	UTM	0.9	0.1	21.27	7.81	1.296	113.5	5.35	12.4	297	0.9 gpm
1746	UTM	3.5	0.5	22.22	7.62	1.314	87.6	5.29	111	297	0.5 gpm
1750	UTM	7.0	1.0	23.08	7.62	1.313	81.7	5.61	47.9	297	0.8 gpm
1754	UTM	10.5	1.5	23.24	7.62	1.316	77.1	5.41	31.3	297	0.9 gpm
1758	UTM	14	2.0	23.29	7.64	1.313	78.5	5.46	17.9	297	0.9 gpm
1802	UTM	17.5	2.7	23.08	7.62	1.324	74.8	5.27	13.4	297	0.9 gpm
1805	UTM	20.5	3.0	22.97	7.63	1.324	73.5	5.18	17.5	297	0.9 gpm

SAMPLE COLLECTION SAMPLE TIME 1805

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-08

Time 1217 Static DTW (ft below reference point)	136.13	Casing Volume (CV) (gallons) 4.7 3 CV (gallons) 14.1	Weather Conditions	Initials AMB, DM	
Casing Total Depth (ft below reference point)	163.79	Purging Device Ded. sample bailer Sampling Device Ded. bailer	Time 1230 Temp. ~75	Begin Purge 1227 End Purge 1326	
Water Column (feet)	27.66	Pump: Depth (ft brp) NA Type Voltage HP	Skies Clear/Sunny	Gallons Purged 14.4 CVs Purged 3.1	
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-3 From S-SW	DTW (ft brp) 136.57 Time 1326	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1227	BEGIN	BAILING									
1228	NM	0.1	0.02	22.18	7.73	2.043	125.6	3.30	5.22		
1241	NM	2.25	0.5	21.59	7.37	2.021	125.5	3.42	49.0		
1251	NM	4.50	1.0	21.33	7.40	2.007	131.5	4.76	37.9		
1256	NM	7.6	1.6	21.39	7.43	1.995	126.9	5.09	21.3		
1305	NM	10.0	2.1	21.45	7.50	1.645	136.5	5.33	11.6		
1315	NM	12.5	2.7	21.35	7.47	1.996	142.1	3.54	13.1		
1320	NM	14.4	3.1	21.16	7.38	2.032	135.2	4.54	6.22		

SAMPLE COLLECTION SAMPLE TIME 1320

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Casing bent - use ded bailer

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-09

Time 1549 Static DTW (ft below reference point)	150.26	Casing Volume (CV) (gallons) 6.9	3 CV (gallons) 20.8	Weather Conditions	Initials DM/AMB
Casing Total Depth (ft below reference point)	191	Purging Device Grundfos MP1	Sampling Device DED TUBING	Time 1550 Temp. 70°	Begin Purge 1610 End Purge 1632
Water Column (feet)	40.74	Pump: Depth (ft brp) 189'	Type redi-flo Voltage 240 HP	Skies CLEAR	Gallons Purged 19.5 CVs Purged 3.1
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 0-5 From SW	DTW (ft brp) 150.31 Time 1700

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1610	PUMP ON									320	0.75 gpm.
1614	VTM	3	0.4	22.94	7.54	1.491	171.4	2.34	188	320	1 gpm @ 1.25 gpm @ 1615
1618	VTM	7.5	1.1	25.4	7.69	0.771	90.6	1.15	VTM	311	1 gpm turned down after rise in turbidity
1622	VTM	11.5	1.7	24.39	7.70	0.718	115.2	1.05	64.3	311	1 gpm
1625	VTM	14.5	2.1	24.12	7.69	0.698	92.5	1.04	27.4	311	1 gpm
1628	VTM	17.5	2.5	24.05	7.68	0.699	81.8	1.03	17.9	311	1 gpm
1632	VTM	21.5	3.1	24.00	7.67	0.018	68.6	2.01	NM	311	1 gpm Collect sample

SAMPLE COLLECTION SAMPLE TIME 1632

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

New dedicated tubing, pumped this quarter, previously bailed

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-13

Time 909 Static DTW (ft below reference point)	117.57	Casing Volume (CV) (gallons) 7.15 3 CV (gallons) 21.5	Weather Conditions
Casing Total Depth (ft below reference point)	159.66	Purging Device Grundfos pump Sampling Device ded. tubing	Time 930 Temp. 68°
Water Column (feet)	42.09	Pump: Depth (ft brp) 115' Type redi flo Voltage 240 HP	Skies Clear
Casing Capacity (Diameter 2 ") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 0-2 From SSW

Initials AMB DM
Begin Purge 940 End Purge 1005
Gallons Purged 22 CVs Purged 3, 1
DTW (ft brp) 117.52 Time 1017

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
940	Pump	ON								279	
942	UTM	2	0.3	22.04	7.52	1.219	141.3	6.54	24.1	279	1 gpm
945	UTM	5	0.7	23.04	7.49	1.218	123.0	6.45	39.1	279	
948	UTM	8	1.1	23.38	7.47	1.219	103.6	6.37	24.1	279	
951	UTM	11	1.5	23.50	7.47	1.221	95.1	6.30	6.41	279	1 gpm
955	UTM	15	2.1	23.53	7.47	1.226	87.4	6.31	2.24	279	1 gpm
959	UTM	19	2.7	23.54	7.47	1.224	82.6	6.32	0.95	279	
1003	UTM	22	3.1	23.51	7.48	1.223	79.6	6.32	0.49	279	

SAMPLE COLLECTION SAMPLE TIME 1003

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3 dups	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Pumped, previously bailed

RB-020812 @ 850 taken from pump for VOCs & 1,4 dioX

MW

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-15

Time 841 Static DTW (ft below reference point)	133.37	Casing Volume (CV) (gallons) 5.7	3 CV (gallons) 17.0	Weather Conditions Time 925 Temp. ~70°	Initials AMB DM
Casing Total Depth (ft below reference point)	166.80	Purging Device Ded. bailer	Sampling Device ded bailer	Skies Clear, Sunny	Begin Purge 854 End Purge 1013
Water Column (feet)	33.43	Pump: Depth (ft brp) NA Type	Voltage HP		Gallons Purged 17 CVs Purged 3.0
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 0-1 From S-SW	DTW (ft brp) 133.3 Time 1013

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
854	BEGIN	BAIL	NA	19.90	7.26	1.583	186.2	7.45	1.49		
858	NM	2.5	0.4	20.65	7.13	1.560	7.26	7.25	126		
906	NM	5.0	0.9	20.49	7.17	1.569	170.1	7.93	130		
915	NM	7.5	1.3	20.60	7.22	1.585	161.9	7.81	82.9		
922	NM	10.0	1.8	20.51	7.36	1.586	152.7	8.11	62.7		
929	NM	12.5	2.2	20.74	7.38	1.583	147.8	7.81	41.6		PAUSE PURGE RESUME PURGE @950
952	NM	15.0	2.6	20.77	7.37	1.597	133.9	8.11	41.6		
1003	NM	17.0	3.0	20.83	7.32	1.593	142.4	8.46	41.6		

SAMPLE COLLECTION SAMPLE TIME 1003

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	~~1~~	1 L Amber
8270 MOD 1,4 dioxane	~~1~~	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Diver out @ 841

Diver in @ 1013

Used dedicated bailer

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 7 /12 TASK: 532.30 WELL ID: MW-16

Time 1600 Static DTW (ft below reference point)	121.40	Casing Volume (CV) (gallons) 37.7 3 CV (gallons) 113.1	Weather Conditions	Initials AMB DM
Casing Total Depth (ft below reference point)	178.5	Purging Device grundfos pump Sampling Device ded. tubing	Time 1615 Temp. ~62°F	Begin Purge 1624 End Purge 1706
Water Column (feet)	57.1	Pump: Depth (ft brp) 176 Type redi-flo Voltage 240 HP	Skies cloudy scattered & lowers	Gallons Purged 101.7 CVs Purged 3.1
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 1-2 From S-SE	DTW (ft brp) 121.90 Time 1715

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1624	PUMP ON									320	350 Hz @ 1626
1626	125.05	55	0.1	22.37	7.53	1.203	102.0	12.23	2.8	350	2.75 gpm
1631	125.31	247.5	0.6	22.73	7.48	1.188	91.1	12.07	1.4	350	2.75 gpm
1638	126.66	44	1.1	22.76	7.44	1.200	86.8	12.12	0.05	357	2.75 gpm
1645	125.78	63.3	1.7	22.74	7.42	1.213	83.9	12.66	0.05	357	2.75 gpm
1652	125.81	82.5	2.2	22222?	7.42	1.219	80.9	12.42	0.10	357	2.75 gpm
1700	125.86	101.7	2.7	22.70	7.41	1.218	79.6	12.36	0.20	357	2.75 gpm
1706	125.88	118.2	3.1	22.70	7.39	1.220	79.3	12.35	0.00	357	2.75 gpm

SAMPLE COLLECTION SAMPLE TIME 1706

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/7 AMB/6/12 TASK: 532.30 WELL ID: MW-18

Time 1002 Static DTW (ft below reference point)	117.64	Casing Volume (CV) (gallons) 50.4	3 CV (gallons) 151.2	Weather Conditions	Initials AMB, DM
Casing Total Depth (ft below reference point)	194	Purging Device grundfos pump	Sampling Device dedicated	Time 1030 Temp. ~65	Begin Purge 1052 End Purge 1214
Water Column (feet)	76.36	Pump: Depth (ft brp) 192 Type redi-flo Voltage 240 HP	tubing S	Skies cloudy, raining	Gallons Purged 152 CVs Purged 3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 1-3 From SW	DTW (ft brp) 140.88 Time 1220

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1052	PUMP	ON									PUMP OFF
1056	PUMP	ON	~~2~~ AMB 0.1	21.54	7.19	1.212	133.1	8.72	22	320	2 gpm @ 126.15 @ 1059
1109	137.60	28	0.6	22.63	7.24	1.157	77.3	8.38	1.5	328	~2 gpm
1122	143.80	~~35.5~~ AMB 14	1.1	22.74	7.23	1.188	69.0	8.92	1.1	328	~1.9 gpm 53.5 gallon
1135	UTM	78.2	1.6	22.78	7.23	1.196	64.3	9.23	0.00	328	~~T~~ @ 1136.82 ~1.9 gpm
1148	147.51	102.9	2.0	22.81	7.22	1.196	63.5	9.20	1.0	330	~1.9 gpm
1201	149.55	127.6	2.5	22.84	7.22	1.203	63.6	9.05	0.45	330	~1.9 gpm
1214	151.1	152.3	3.0	22.96	7.21	1.177	63.7	8.98	1.1	330	Collect Sample Pump off @ 1215

SAMPLE COLLECTION SAMPLE TIME 1214

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	8	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) (N) AMB

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

RB-020712 taken from equipment - pump @ 1040

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-19

Time 0920 Static DTW (ft below reference point)	118.02	Casing Volume (CV) (gallons) 52.5 3 CV (gallons) 158	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	205.5	Purging Device del pump Sampling Device del pump	Time 0920 Temp. 60	Begin Purge 0925 End Purge 0947
Water Column (feet)	87.48	Pump: Depth (ft brp) Type Voltage 240 HP	Skies Sunny	Gallons Purged 170 CVs Purged 3.1
Casing Capacity (Diameter 4") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 0 From 0	DTW (ft brp) 117.98 Time 0957

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
0925	—	—			— Begin	Pumping					8 gpm
0927	120.20	16	0.3	21.7	8.71	1.049	105.3	2.06	7.3		8 gpm
0930	120.22	40	0.7	21.5	7.46	1.611	106.2	4.91	6.9		8 gpm
0933	120.20	64	1.2	21.53	7.38	1.627	106.2	4.72	9.0		8 gpm
0937	120.24	96	1.8	21.54	7.34	1.632	106.1	4.70	9.0		8 gpm
0941	120.24	128	2.5	21.55	7.33	1.634	105.9	4.66	8.6		8 gpm
0945	120.23	160	3.0	21.55	7.50	1.639	105.4	4.70	1.7		8 gpm
0947	NM	170	3.1	—	— Pump off	—	—	—	—		

SAMPLE COLLECTION SAMPLE TIME 0945

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
~~8270 SIM 1,4 dioxane~~		~~1 L Amber~~
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

~~AIR MONITORING PID/FID~~ ppm: VAULT NA ~~BKGD NA~~ ~~BREATHING ZONE NA~~ DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 7 /12 TASK: 532.30 WELL ID: MW-20

Time 1317 Static DTW (ft below reference point)	145.76	Casing Volume (CV) (gallons) 31.8 3 CV (gallons) 95.5	Weather Conditions	Initials AMB, DM	
Casing Total Depth (ft below reference point)	194	Purging Device Grundfos Pump Sampling Device ded. tubing	Time 1330 Temp. ~65°F	Begin Purge 1417 End Purge 1525	
Water Column (feet)	48.24	Pump: Depth (ft brp) ~192 Type redi-flo Voltage 240 HP	Skies Cloudy Scattered showers	Gallons Purged 96.9 CVs Purged 3.0	
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 2-4 From S-SE	DTW (ft brp) 146.51 Time 1519	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1402	PUMP ON									330	PUMP OFF @ 1403
1417	PUMP ON									330	
1418	150.45	3.8	0.1	20.21	8.00	1.041	131.8	6.05	40	330	1.9 gpm
1427	151.75	20.9	0.7	22.36	7.79	1.024	141.0	4.68	10	340	2 gpm
1436	153.35	38.9	1.2	22.90	7.73	1.023	135.9	4.65	7.2	340	2 gpm
1445	~~155.83~~ 154.83	56.9	1.8	22.77	7.70	1.025	127.7	4.66	2.8	340	2 gpm 154.83 ±
1454	154.15	74.9	2.4	22.78	7.69	1.024	113.6	4.91	1.6	340	2 gpm
1505	154.33	96.9	3.0	22.84	7.67	1.025	97.8	4.41	1.00	340	Collect sample

SAMPLE COLLECTION SAMPLE TIME 1505

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

New dedicated tubing

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-22

Time 1125 Static DTW (ft below reference point)	1143	Casing Volume (CV) (gallons) 77.7 3 CV (gallons) 233	Weather Conditions	Initials EJH	
Casing Total Depth (ft below reference point)	232	Purging Device dist pump Sampling Device dist pump port	Time 1128 Temp. 70	Begin Purge 1129 End Purge 1201	
Water Column (feet)	117.7	Pump: Depth (ft brp) Type grundfos Voltage 240 HP	Skies sunny	Gallons Purged 28 CVs Purged 3	
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 0 From 0	DTW (ft brp) 114.02 Time 1204	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	...FIELD PARAMETERS... Temp. (C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1129					Begin Pumping						8gpm
1132	114.9	16	0.2	22.11	7.95	1.498	-29.1	0.98	120		8 gpm
1134	114.85	40	0.5	21.60	7.65	1.407	-90.4	2.08	37		8gpm
1139	114.89	80	1.0	21.63	7.53	1.410	-61.8	1.90	11		8gpm
1144	114.87	120	1.5	21.65	7.46	1.410	-47.5	1.88	5.0		8gpm
1149	114.85	160	2.0	21.66	7.44	1.411	-36.7	1.88	4.2		8gpm
1154	114.87	200	2.5	21.66	7.40	1.410	-34.8	1.89	5.1		8 gpm
1159	114.79	240	3.0	21.65	7.38	1.411	-31.3	1.87	3.8		8gpm
1201	NM	256	3.2			Pump off					

SAMPLE COLLECTION SAMPLE TIME 1200

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-23

Time 1250 Static DTW (ft below reference point)	113.9	Casing Volume (CV) (gallons) 77.9	3 CV (gallons) 233.8	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point) 232 330 ~~330~~		Purging Device ded Pump	Sampling Device ded sample tbg	Time 1249 Temp. 75	Begin Purge 1255 End Purge 1332
Water Column (feet) 119.1	116.1	Pump: Depth (ft brp)	Type grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 25 CVs Purged >3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 0 From 0	DTW (ft brp) 113.87 Time 1335

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1255				Begin	Pumping						7gpm
1257	115.50	14	0.18	23.14	9.72	0.738	-32.2	1.20	180		7gpm
1300	115.50	35	0.45	21.67	7.91	1.298	13.9	2.46	170		7gpm
1305	115.48	70	0.9	21.70	7.62	1.322	17.4	2.98	27		7gpm
1312	115.50	119	1.5	21.75	7.51	1.328	16.8	3.14	12		7gpm
1318	115.51	161	2.0	21.75	7.46	1.330	9.90	3.10	12		7gpm
1324	115.52	203	2.6	21.74	7.43	1.331	6.6	3.09	9.5		7gpm
1330	115.50	245	3.1	21.75	7.43	1.332	4.4	3.07	13		7gpm
1332	NM	259	3.2		Pump off						

SAMPLE COLLECTION SAMPLE TIME 1330

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
~~8270-SIM 1,4 dioxane~~		~~1 L Amber~~
~~8270 MOD 1,4 dioxane~~		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

~~AIR MONITORING PID/FID ppm: VAULT NA~~ ~~BKGD NA~~ ~~BREATHING ZONE NA~~ ~~DISCHARGE WATER NA~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-24

Time 1400 Static DTW (ft below reference point)	113.22	Casing Volume (CV) (gallons) 143 3 CV (gallons) 429	Weather Conditions
Casing Total Depth (ft below reference point)	330	Purging Device ded pump Sampling Device ded sample port	Time 1404 Temp. 79
Water Column (feet)	216.78	Pump: Depth (ft brp) Type grundfos Voltage 240 HP	Skies Sunny
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) Ø From Ø

Initials EJH
Begin Purge 1409 End Purge 1452
Gallons Purged 462 CVs Purged >3
DTW (ft brp) 113.41 Time 1453

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1409	—	—	—	Begin pumping							11gpm
1411	117.62	22	0.15	21.72	10.20	0.438	-237.2	2.41	55		11 gpm
1415	118.00	66	0.50	21.88	8.51	0.529	-235.3	0.73	24		11 gpm
1422	118.20	143	1.0	21.91	8.06	0.540	-180.8	0.25	6.6		11 gpm
1429	118.27	220	1.5	21.91	7.88	0.543	-159.2	0.15	5.7		11gpm
1436	118.41	297	2.1	21.92	7.77	0.544	-148.4	0.10	3.8		11gpm
1443	118.48	374	2.6	21.92	7.69	0.544	-140.2	0.18	2.3		11 gpm
1449	118.43	440	3.1	21.93	7.70	0.545	-137.6	0.10	1.4		11 gpm
1451	NM	462	3.3	—	Pump off						

SAMPLE COLLECTION SAMPLE TIME 1450

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 **TASK:** 532.30 **WELL ID:** MW-26C

Time 1520 Static DTW (ft below reference point)	117.66	Casing Volume (CV) (gallons) 64.8	3 CV (gallons) 194.5	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	499	Purging Device del. pump	Sampling Device del. sampler	Time 1529 Temp. 75	Begin Purge 1537 End Purge 1715
Water Column (feet)	381.34	Pump: Depth (ft brp) 300 Type grundfos Voltage 240 HP		Skies Sunny	Gallons Purged ~~3.0~~ 196 CVs Purged 3.0
Casing Capacity (Diameter 2 ") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0 From 0	DTW (ft brp) 117.74 Time 1718

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1537				Begin Pumping						310	2gpm
1540	118.43	6	0.1	22.24	9.31	0.547	-137.4	0.43	1.34	310	2 gpm
1555	118.47	36	0.55	22.49	7.73	0.932	-100.3	~~0.82~~	3.04	310	2 gpm
1610	118.38	66	1.0	22.54	7.63	0.911	-82.2	2.99	2.84	310	2 gpm
1625	118.42	96	1.5	22.54	7.59	0.880	-77.7	3.04	1.88	310	2gpm
1640	118.46	126	2.0	22.48	7.58	0.973	-78.4	3.23	1.37	310	2gpm
1655	118.34	156	2.5	22.45	7.56	0.913	-75.4	3.13	0.12	310	2 gpm
1715	118.36	196	3.0	22.44	7.55	0.991	-74.5	3.12	1.38	310	2gpm
					Pump off						

SAMPLE COLLECTION SAMPLE TIME 1715

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

~~AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/09/12 TASK: 532.30 WELL ID: MW-27

Time 1026 Static DTW (ft below reference point)	117.22	Casing Volume (CV) (gallons) 29.7 3 CV (gallons) 89.1	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	515	Purging Device ded. pump Sampling Device dep Bailer	Time 1022 Temp. 65	Begin Purge 1033 End Purge 1043
Screen Water Column (feet)	45	Pump: Depth (ft brp) 470 Type grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 165 CVs Purged 3
Casing Capacity (Diameter 4") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) 0 From 0	DTW (ft brp) 118.2 Time 1046

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1028				Begin Bumping							
1030	121.91	14 28 (21)	0.5	21.89	7.70	1.049	62.8	1.06	7.3		7gpm
1033	122.15	35	1.1	21.79	7.61	0.832	51.1	1.90	9.0		7gpm
1035	122.20	49	1.6	21.85	7.60	0.831	49.4	2.00	13		7gpm
1037	122.21	63	2.1	21.88	7.58	0.824	46.3	1.89	24		7gpm
1039	122.20	77	2.6	21.88	7.59	0.823	45.3	1.90	18		7gpm
1041	122.20	91	3.0	21.88	7.58	0.823	44.2	1.89	11		
1043	NM	105	3.5	Pump off							

SAMPLE COLLECTION SAMPLE TIME 1041

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-28

Time 0958 Static DTW (ft below reference point)	121.60	Casing Volume (CV) (gallons) 27	3 CV (gallons) 81	Weather Conditions	Initials EJH
Casing Total Depth (ft below reference point)	375	Purging Device dedi Pump	Sampling Device dedicated pipe stem	Time 0959 Temp. 65	Begin Purge 1000 End Purge 1014
screen Water Column (feet)	45	Pump: Depth (ft brp) 330 Type grundfos Voltage 240 HP		Skies sunny	Gallons Purged 98 CVs Purged 3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) Ø From Ø	DTW (ft brp) 121.60 Time 1016

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1000	←			Pump on						→	7gpm
1002	126.96	14	0.5	22.33	7.59	1.196	118.8	4.37	3.0		
1004	127.72	28	1.0	21.73	7.54	1.115	115.5	5.19	2.9		7gpm
1006	127.91	42	1.5	21.79	7.49	1.143	111.6	5.46	2.8		7gpm
1008	127.93	56	2.0	21.81	7.48	1.147	108.0	5.52	1.8		7gpm
1010	127.94	70	2.5	21.81	7.46	1.149	102.1	5.58	0.80		7gpm
1012	127.96	84	3.0	21.81	7.48	1.149	98.4	5.54	0.10		
1014	NM	98	3.5	←		Pump off				→	

SAMPLE COLLECTION SAMPLE TIME 1012

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-29

Time 1042 Static DTW (ft below reference point)	124.54	Casing Volume (CV) (gallons) 30	3 CV (gallons) 90	Weather Conditions	Initials EKB
Casing Total Depth (ft below reference point)	240	Purging Device Desl Pump	Sampling Device >100 Pipe Stand	Time 1052 Temp. 70°F	Begin Purge 1046 End Purge 1106
Water Column (feet)	50	Pump: Depth (ft brp) 190 Type Grundfos Voltage 240 HP		Skies Sunny	Gallons Purged 91 CVs Purged 3.0
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) Ø From ~	DTW (ft brp) 124.12 Time 1117

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1046	~124.5	Ø	Ø	Pump On							Q=5.0
1048	132.35	7.0	0.2	21.54	7.25	1.390	-113.3	4.44	37.2		
1050	132.86	15	0.5	21.56	7.28	1.395	-82.6	6.24	3.81		
1053	132.85	32	1.1	21.64	7.31	1.394	-33.8	7.37	1.02		
1056	132.84	46	1.5	21.67	7.30	1.405	-6.3	7.91	1.62		Q=5 gpm
1100	132.80	62	2.0	21.67	7.31	1.405	1.9	8.01	2.89		Q=5 gpm
1103	132.77	77	2.6	21.67	7.30	1.404	5.3	8.10	4.38		
1106	132.76	91	3.0	21.68	7.32	1.405	2.9	8.27	1.32		Q=5 gpm
1110	NM	110	~3+	Pump Off							

SAMPLE COLLECTION SAMPLE TIME 1107

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3+3	40 ml VOA
8270 SIM 1,4 dioxane		1 L Amber
8270 MOD 1,4 dioxane	(+1+)	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-2900 (Dup) @ 1100, MW-29 (SPT) @

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-30A

Time 855 Static DTW (ft below reference point)	111.32	Casing Volume (CV) (gallons) 17.2	3 CV (gallons) 51.5	Weather Conditions	Initials EKB
Casing Total Depth (ft below reference point) 524' ~~614~~ (EPA)		Purging Device Ded. Pump	Sampling Device 0-10 Pipestand	Time 910 Temp. 68°F	Begin Purge 903 End Purge 914
Screen-pump Water Column (feet)	44	Pump: Depth (ft brp) 520 Type Grundfos Voltage 240 HP		Skies Sunny	Gallons Purged 58 CVs Purged 3+
Casing Capacity (Diameter 3") (gallons per foot)	0.39	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0 From —	DTW (ft brp) 111.29 Time 929

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
903	~111.3	0	0	Pump	On	—				—	Q=5.6 gpm
904	113.06	8	0.5	21.02	7.44	0.727	136.0	0.48	2.95		
906	113.08	16.0	0.93	21.04	8.18	0.716	106.3	0.42	2.33		Q=5.6
908	113.10	26	1.5	21.21	7.72	0.684	108.7	0.49	5.38		
910	113.12	36	2.0	21.38	7.60	0.686	100.8	0.68	10.10		
912	113.13	50	2.9	21.42	7.57	0.685	88.2	0.74	5.18		
914	113.14	58	3.0	21.42	7.57	0.685	85.9	0.75	2.05		
918	NM	77.8	4.5	Pump	Off	—				—	

SAMPLE COLLECTION SAMPLE TIME 914

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+6	40 ml VOA
8270 SIM 1,4 dioxane	1+2	1 L Amber
8270 MOD 1,4 dioxane	0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

MS/MSD

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: MW-30B

Time 945 Static DTW (ft below reference point)	110.15	Casing Volume (CV) (gallons) 37	3 CV (gallons) 112.3	Weather Conditions	Initials EKB
Casing Total Depth (ft below reference point)	616	Purging Device Ded. Pump	Sampling Device 10-100 Pipe Stand	Time 955 Temp. 65°F	Begin Purge 951 End Purge 1012
Pump-screen Water Column (feet)	96	Pump: Depth (ft brp) 520 Type Grundfos Voltage 240 HP		Skies Sunny	Gallons Purged 113 CVs Purged 3+
Casing Capacity (Diameter 3") (gallons per foot)	0.39	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 0 From —	DTW (ft brp) 115.63 Time 1022

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
950	~110.2	0	0	Pump	On						Q = 5.7
952	125.4	10	0.3	21.29	7.43	1.123	95.1	0.27	2.91		Q = 5.5
955	127.9	21	0.6	21.17	7.69	0.798	81.5	0.22	2.55		
957	129.22	35	0.94	21.32	7.70	0.800	80.2	0.23	0.75		
1001	130.85	56	1.5	21.43	7.51	0.963	81.2	0.25	9.80		Q = 5.5
1004	131.81	75	2.0	21.47	7.40	1.066	77.1	0.27	13.9		
1008	132.56	95	2.6	21.49	7.38	1.061	74.4	0.25	7.66		
1012	133.04	113	3.0	21.52	7.39	1.057	71.8	0.25	5.78		Q = 5.4
1015	NM	131	3+	Pump	off						

SAMPLE COLLECTION SAMPLE TIME 1012

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES (SPLITS) / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/09/12 TASK: 532.30 WELL ID: MW-31

Time 1258 Static DTW (ft below reference point)	100.74	Casing Volume (CV) (gallons) 79.4	3 CV (gallons) 238	Weather Conditions	Initials EKB
Casing Total Depth (ft below reference point)	996	Purging Device Ded. Pump	Sampling Device 10-100 Ded. Pipestaltic	Time 1310 Temp. 75°F	Begin Purge 1302 End Purge 1320
Screen-pum Water Column (feet)	54	Pump: Depth (ft brp) 942 Type Grundfos Voltage 240 HP		Skies Sunny	Gallons Purged 277 CVs Purged 3.5
Casing Capacity (Diameter 6") (gallons per foot)	1.5	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0-5 From SW	DTW (ft brp) 99.90 Time 1326

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1302	~100.7	0	0	Pump On							Q = 16 gpm
1304	NM	26	0.3	21.12	7.98	0.847	62.5	0.51	2.98		Q = 16.1
1306	103.32	76	1.0	21.06	8.81	1.193	-87.5	0.32	1.94		Q = 16.2
1309	103.33	107	1.4	21.23	8.43	0.967	32.5	0.77	43.7		
1313	103.34	160	2.0	21.27	8.04	0.877	36.7	1.03	15.9		Q = 16.1
1316	103.37	216	2.7	21.29	8.03	0.820	33.5	1.18	9.24		
1318	103.37	245	3.1	21.30	7.88	0.798	33.4	1.25	5.32		
1320	NM	277	3.5	Pump Off							

SAMPLE COLLECTION SAMPLE TIME 1319

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 7 /12 TASK: 532.30 WELL ID: MW-32A

Time 0933 Static DTW (ft below reference point)	76.63	Casing Volume (CV) (gallons) 207 3 CV (gallons) 621	Weather Conditions: Time 1010 Temp. 60°F; Skies light rain; Wind (mph) 0 From —
Casing Total Depth (ft below reference point)	905	Purging Device Ded. pump Sampling Device Ded. NP Pipestand	Initials EKB + EJH
pumpset Water Column (feet)	345'	Pump: Depth (ft brp) 560 Type Grundfos Voltage ~~240~~ 320 HP	Begin Purge 953 End Purge 1039
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ___ Fast X	Gallons Purged 622 CVs Purged 3+
			DTW (ft brp) 77.24 Time 1048

Time	Depth to Water	Volume Purged (Gallons)	~~Casing~~ Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
953	NM	0	0	Begin Pumping							Q = 13.5 gpm
955	78.52	30	0.14	20.47	7.50	0.792	-7.3	0.53	7.43		
1001	78.70	115	0.6	20.73	7.43	0.798	12.2	1.39	7.59		Q = 13.6 gpm
1009	78.64	210	1.0	20.92	7.44	0.802	15.1	1.51	7.54		
1016	78.75	308	1.5	20.93	7.48	0.801	-5.2	1.78	2.10		Q = 13.6
1023	78.77	411	2.0	20.96	7.46	0.800	-18.0	1.79	7.25		Q = 13.6
1031	78.80	520	2.5	20.97	7.44	0.799	-24.8	1.82	1.18		Q = 13.6
1039	78.89	622	3.0	20.94	7.51	0.798	-26.2	1.79	2.38		
1043	78.91	675	3.2	Pump	off	—	—	—	—		Q = 0

SAMPLE COLLECTION SAMPLE TIME 1039

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1+1	1 L Amber
8270 MOD 1,4 dioxane	0	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

MS/MSD

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Screen 890-905

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 7 /12 TASK: 532.30 WELL ID: MW-32B

Time 1458 Static DTW (ft below reference point)	77.03	Casing Volume (CV) (gallons) 263.4 3 CV (gallons) 790.2	Weather Conditions Time 1520 Temp. 60°F
Casing Total Depth (ft below reference point)	999	Purging Device Ded. Pump Sampling Device Ded. 7100 pipeline	Skies Cloudy
Screen-~~Pump~~ ~~Water~~ Column (feet)	439	Pump: Depth (ft brp) 510 Type Grundfos Voltage ~~440~~ 320 HP	Wind (mph) 2-7 From W
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X	DTW (ft brp) 78.31 Time 1645

Initials EJH + EKB

Begin Purge 1535 End Purge 1646

Gallons Purged 810 CVs Purged 3.1

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1535		Pump		on							13.1 gpm
1536	96.63	15	0.06	20.73	7.78	0.862	-189.7	1.27	27.2		13.1 gpm
1546	102.05	135	0.5	20.80	7.78	0.818	-199.9	0.35	16.5		12.8 gpm
1555	102.18	256	0.9	21.02	7.91	0.650	-194.0	0.26	5.24		12.8 gpm
1605	103.51	390	1.5	21.20	7.81	0.783	-161.0	0.23	9.27		12.6 gpm
1617	104.20	542	2.1	21.21	7.82	0.801	-141.2	0.16	4.50		12.9 gpm
1626	104.36	650	2.5	21.21	7.81	0.811	-142.4	0.18	3.18		12.9 gpm
1638	104.57	810	3.1	21.09	7.85	0.802	-105.8	0.18	2.38		12.6 gpm
1640	NM	834	3.1+	Pump	off						0 = Ø

SAMPLE COLLECTION SAMPLE TIME 1638

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Strong odor

MW-3200B @ 1600

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 7 /12 TASK: 532.30 WELL ID: MW-32C

Time 1210 Static DTW (ft below reference point)	63.77	Screen Casing Volume (CV) (gallons) 318	3 CV (gallons) 954	Weather Conditions	Initials EKB / EJH
Casing Total Depth (ft below reference point) 1090	499 (est)	Purging Device ded. pump	Sampling Device DED ND PIPE STAND	Time 1450 Temp. 60°F	Begin Purge 1218 End Purge 1446
Screen-Pump Water Column (feet) 530	430 (est)	Pump: Depth (ft brp) 500 Type grundfos Voltage 320 HP		Skies cloudy	Gallons Purged 1063 CV Purged 3.3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 2-7 From W	DTW (ft brp) 183.5 Time 1454

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (S/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1218		Pump	ON	—						—	13.5gpm
1219	94.9	20	0.06	20.49	8.16	0.475	-137.4	1.16	6.37		12.6 gpm
1232	209.1	156	0.50	20.79	8.05	0.478	-164.4	0.35	1.79		8.6gpm
1255	239.6	330	1.00	21.15	8.11	0.480	-172.1	0.30	1.00		7.1 gpm
1309	243.64	430	1.35	21.35	8.13	0.482	-162.2	027	1.62		6.8gpm
1330	245.8	575	1.80	21.47	8.13	0.483	-138.1	0.24	15.5		6.6gpm
1350	248.15	710	2.2	21.48	8.14	0.483	-136.6	0.23	14.0		6.5gpm
1406	248.73	814	2.6	21.49	8.13	0.483	-134.4	0.21	5.68		6.5gpm
1429	249.55	955	3.0	21.52	8.12	0.484	-130.7	0.10	4.51		6.4 gpm
1446	250.1	1063	3.34	21.53	8.15	0.484	-140.8	0.11	4.96		6.3 gpm
1449	NM	1078	3.38	—							Pump off

SAMPLE COLLECTION SAMPLE TIME 1447

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~1~~	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

remove ducer during purge @ 1145, replace @ 1510 ∑ = 99.85'

over pump to account for drawdown

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-33

Time 1555 Static DTW (ft below reference point)	75.10	Casing Volume (CV) (gallons) 291	3 CV (gallons) 873	Weather Conditions	Initials EKB + EJH
Casing Total Depth (ft below reference point)	1020	Purging Device Ded. Pump	Sampling Device Ded. 0-10 Pipestand	Time 1605 Temp. 60°F	Begin Purge 1600 End Purge 1643
Water Column (feet)	485	Pump: Depth (ft brp) 535 Type Grundfos Voltage 240 HP		Skies Sunny	Gallons Purged 893 CVs Purged 3
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X		Wind (mph) 2-5 From SW	DTW (ft brp) 74.00 Time 1647

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1600	~75.1	0	0	Pump	On						Q = 20.3 gpm
1601	76.02	21	0.1	19.43	8.41	0.682	56.4	2.96	3.42		
1608	76.00	156	0.5	20.35	8.06	0.681	-159.4	1.74	3.47		Q = 20.5
1614	76.01	300	1.0	20.60	8.03	0.706	-147.7	1.91	2.44		Q = 20.5
1621	76.10	440	1.5	20.66	7.95	0.710	-152.6	0.82	1.28		Q = 20.6
1628	76.19	587	2.0	20.67	7.90	0.711	-134.9	1.21	1.52		Q = 20.6
1635	76.18	734	2.5	20.68	7.87	0.710	-135.7	0.76	1.51		Q = 20.6
~~1638~~ 1642	76.20	878	3.0	20.68	7.87	0.710	-135.1	0.710	0.69		Q = 20.6
1643	NM	898	3.1	Pump	Off						Q = 0

SAMPLE COLLECTION SAMPLE TIME 1642

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-34A

Time 1138 Static DTW (ft below reference point)	134.48	Screen SV Casing Volume (CV) (gallons) 48 3 CV (gallons) 144	Weather Conditions
Casing Total Depth (ft below reference point)	280	Purging Device Ded Pump Sampling Device ND pipestand	Time 1130 Temp. 75°F
screen to Static Water Column (feet)	80	Pump: Depth (ft brp) 200' Type Grundfos Voltage 240 HP	Skies Clear, Sunny
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 1-3 From S-SW

Initials AMB, DM
Begin Purge 1147 End Purge 1158
Gallons Purged ~156 CVs Purged 3.2
DTW (ft brp) 134.56 Time 1205

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1146	PUMP	ON									12 GPM
1147	136.17	12	0.3	22.24	7.75	1.252	195.2	5.54	6.74		12 GPM
1149	136.17	36	0.8	22.19	7.68	1.250	172.6	5.61	533		12 GPM BROWN/ORANGE CLOUDY WATER
1151	136.15	70	1.5	22.17	7.69	1.255	165.1	5.47	111		12.25 GPM
1153	136.15	94.5	1.9	22.20	7.69	1.255	185.2	5.52	109		12.25 GPM
1155	136.17	119	2.5	22.19	7.70	1.257	189.5	5.49	58.5		12.25 GPM
1158	136.18	155.75	3.2	22.19	7.71	1.259	191.1	5.57	219		12.25 GPM

SAMPLE COLLECTION SAMPLE TIME 1158

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~1~~	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-34B

Time 1415 Static DTW (ft below reference point)	137.49	Casing Volume (CV) (gallons) 46 3 CV (gallons) 137	Weather Conditions Time 1430 Temp. ~73
Casing Total Depth (ft below reference point)	536	Purging Device ded pump Sampling Device > dedicated pipestand	Skies Clear, sunny
Screen to pump / Screen Water Column (feet)	76	Pump: Depth (ft brp) 480 Type grundfos Voltage 240 HP	Wind (mph) 1-3 From S-SW
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X	Initials AMB, DM; Begin Purge 1424 End Purge 1436; Gallons Purged 141.6 CVs Purged 3.1; DTW (ft brp) 137.78 Time 1450

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°F)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1424	PUMP	ON									
1425	138.99	12	0.3	21.34	7.62	1.094	-93.8	3.05	985	AMB	11.75 gpm 14.7 NTU
1427	139.05	35	0.8	21.57	7.43	1.071	-231.8	4.12	248		~~11.8~~ 11.8 gpm ORANGE/BROWN CLOUDY WATER
1429	139.05	59	1.3	21.93	7.57	1.073	-167.3	4.28	575		
1431	139.17	82.6	1.8	21.95	7.57	1.069	-166.8	4.12	217		Sulfur smell in purge water
1433	139.22	106.2	2.3	21.96	7.57	1.068	-165.0	4.05	162		11.8 gpm
1436	139.70	141.6	3.1	21.98	7.57	1.068	-156.5	3.99	188		

SAMPLE COLLECTION SAMPLE TIME 1436

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3+3	40 ml VOA
8270 SIM 1,4 dioxane	0	1 L Amber
8270 MOD 1,4 dioxane	1+1+1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Dup MW-3400B @ 1456; Split MW-34B at 1446

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-34C

Time 1044 Static DTW (ft below reference point)	137.13	Screen SV Casing Volume (CV) (gallons) 57.7 3 SV (gallons) 173	Weather Conditions Time 1045 Temp. ~70°F
Casing Total Depth (ft below reference point)	576	Purging Device Ded pump Sampling Device Ded ND? Lpes Tubing	Skies SUNNY
screen to pump Water Column (feet)	96	Pump: Depth (ft brp) 480' Type grundfos Voltage 240 HP	Wind (mph) 0-3 From S-SW
Screen Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow ____ Fast X	Initials AHP, DM; Begin Purge 1055 End Purge 1112; Gallons Purged 198 CVs Purged 3.; DTW (ft brp) 139.03 Time 1119

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°F)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1055	BEGIN PUMPING										11 GPM
1057	WTM	22	0.4	21.85	8.05	0.680	100.2	4.20	0.49		11 GPM
1059	WTM	44	0.8	21.93	7.44	0.695	87.6	3.16	0.64		11 GPM Sulfur smell in water
1103	154.08	88	1.5	21.94	7.57	0.731	99.4	3.18	4.15		11 GPM
1107	154.61	132	2.3	21.96	7.91	0.725	120.2	3.21	9.00		11 GPM
1110	155.20	165	2.9	21.99	7.98	0.730	123.3	3.19	5.67		11 GPM
1112	155.58	198	3.4	22.04	8.03	0.734	101.8	3.24	6.24		11 GPM

SAMPLE COLLECTION SAMPLE TIME 1112

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Purged over 3 casing volumes to account for drawdown losses

Ducer pulled at 1200

Ducer in at 1125

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-357

Time 815 Static DTW (ft below reference point)	65.11	Casing Volume (CV) (gallons) 42	3 CV (gallons) 126	Weather Conditions	Initials EJH + EHB
Casing Total Depth (ft below reference point)	470	Purging Device Ded. Pump	Sampling Device ~~PipeStrw~~ D-10	Time 830 Temp. 65°F	Begin Purge 825 End Purge 843
Pump screen Water Column (feet)	70	Pump: Depth (ft brp) 400 Type GRUNDFOS Voltage 240 HP		Skies Sunny	Gallons Purged ~200 CVs Purged 4.7
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0 From —	DTW (ft brp) 115.4 Time 849

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
825	~65	0	0	Pump on							
826	NM	13.0	0.3	20.64	7.35	1.025	197.0	3.06	14.4		Q = 13.3
828	NM	34	0.8	19.83	7.34	0.990	-108	1.52	NM		Q = 12.2 ∇ = 140.6 @ 829
830	156.87	70	1.6	19.91	7.39	1.001	-182	1.53	5.53		Q = 11.9
832	169.46	90	2.1	19.94	7.44	0.999	-1785	1.52	3.38		Q = 11.4
834	181.87	114	2.7	19.97	7.50	1.005	-178.0	0.90	5.14		Q = 11.2
837	190.03	145	3.5	20.00	7.51	1.003	-175.1	0.79	4.96		Q = 10.9
841	199.44	196	4.7	20.05	7.53	1.000	-163.7	0.83	4.16		Q = 10.2
843	NM	210	5.0	Pump off							

SAMPLE COLLECTION SAMPLE TIME 842

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

remove ducer during purge @ 829, reset @ 855

Purge over 3 screen volumes to account for drawdown loss

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-35B

Time 857 Static DTW (ft below reference point)	73.02	Casing Volume (CV) (gallons) 707	3 CV (gallons) 621	Weather Conditions	Initials EJH + EKB
Casing Total Depth (ft below reference point)	805	Purging Device ded pump	Sampling Device ded pipestand	Time 0903 Temp. 65	Begin Purge 902 End Purge 0932
Pump - Screen Water Column (feet)	345	Pump: Depth (ft brp) 460 Type	Voltage 240 HP	Skies Sunny	Gallons Purged 645 CVs Purged 8.1
Casing Capacity (Diameter 4") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 8 From W	DTW (ft brp) 73.31 Time 0932

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
902		Begin Pumping		~	~	~	~	~	~	~	22 gpm
804	78.64	25	0.1	20.53	7.81	1.049	-107.2	7.25	~~20.1~~ 1.77 (QA)		22gpm
808	78.77	115	0.6	20.31	7.81	1.049	-96.1	6.76	1.48		22.5 gpm
912	78.91	200	1.0	20.14	7.83	0.992	-138.5	6.49	53.9		22.5gpm
916	79.01	318	1.5	20.17	7.69	1.069	-126.7	3.69	55.6		22.8gpm
0920	78.99	400	1.9	20.17	7.67	1.095	-110.9	2.30	18.7		22.8gpm
0925	79.00	512	2.5	20.18	7.66	1.109	-102.4	1.81	9.18		22.8 gpm
0930	79.05	623	3.0	20.17	7.65	1.113	-96.9	1.70	4.70		
0932	NM	645	3.1	—	Pump off	—	—	—	—		

SAMPLE COLLECTION SAMPLE TIME 0930

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	—	1 L Amber

DUPLICATES / SPLITS / BLANKS? Y (N)
If yes, complete appropriate forms.

~~AIR MONITORING PID/FID ppm: VAULT NA~~ ~~BKGD NA~~ ~~BREATHING ZONE NA~~ ~~DISCHARGE WATER NA~~

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 8 /12 TASK: 532.30 WELL ID: MW-35C

Time 954 Static DTW (ft below reference point)	76.24	Casing Volume (CV) (gallons) 348 3 CV (gallons) 1044	Weather Conditions
Casing Total Depth (ft below reference point)	990	Purging Device Bel Amp Sampling Device ND Pipestand	Time 0950 Temp. 65
Screen-Pump Water Column (feet)	580	Pump: Depth (ft brp) 1040 Type grundfos Voltage 240 HP	Skies Sunny
Casing Capacity (Diameter 4 " Sch 80) (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow Fast X	Wind (mph) Ø From Ø

Initials EKB / EJH

Begin Purge 1038 End Purge 1125

Gallons Purged 1045 CVs Purged 3+

DTW (ft brp) 76.71 Time 1128

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1038				Begin	Pumping						
1040	80.09	30	0.1	19.19	8.02	0.996	-30.2	3.64	4.22		23gpm
1046	80.41	175	0.5	20.12	7.75	0996	-33.0	1.84	25.1		23gpm
1052	80.48	307	0.9	20.26	7.71	0.967	-19.3	1.99	31.5		21.2gpm
1059	80.08	460	1.3	20.36	7.81	0.797	-32.7	3.60	44.8		20.9gpm
1105	80.11	595	1.7	20.36	7.79	0.797	-25.4	3.65	33.1		20.8gpm
1115	80.62	801	2.3	20.31	7.79	0.800	-18.0	4.04	10.1		23.2gpm
1125	80.69	1045	3.0	20.32	7.77	0.801	-21.9	3.92	7.82		23.2gpm
1127	NM	1087	3.0		Pump off						

SAMPLE COLLECTION SAMPLE TIME ~~1125~~ 1125

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 1/ 13 /12 TASK: 532.03 WELL ID: MW-36

Time 1027 Static DTW (ft below reference point)	76.60	Casing Volume (CV) (gallons) 320	3 CV (gallons) 960	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	994.3	Purging Device Sub. pump	Sampling Device ND pipestand	Time 1030 Temp. ~70	Begin Purge 1028 End Purge 1207
Water Column (feet)	553.3	Pump: Depth (ft brp) 461' Type grundfos	Voltage 240 HP	Skies Clear	Gallons Purged 972 CVs Purged 3.0
Casing Capacity (Diameter 4") (gallons per foot)	0.600	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 2-10 From -	DTW (ft brp) 79.50 Time 1224

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1028	START PUMPING										
1029	78.15	8.75	0.03	20.51	8.09	0.479	177.8	2.05	103.9		8.75 gpm
1044	78.75	145.6	0.5	21.24	8.03	0.483	48.8	0.09	10.10		9.5 gpm
1059	78.94	291.9	0.9	21.63	8.12	0.443	-6.9	0.05	13.5		10gpm
1114	79.11	441.9	1.4	21.70	8.12	0.456	0.8	0.05	3.49		10 gpm
1129	79.10	591.9	1.8	21.73	8.12	0.459	-0.6	0.06	6.99		10 gpm
1144	79.30	741.9	2.3	21.74	8.11	0.461	-10.6	0.04	4.40		10 gpm
1159	79.48	891.9	2.8	21.74	8.11	0.463	-14.0	0.04	2.80		10gpm
1207	79.32	971.9	3.0	21.75	8.11	0.463	-15.6	0.03	1.76		Collect samples 10 gpm
1210	PUMP OFF										

SAMPLE COLLECTION SAMPLE TIME 1207

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Pump set (intake) at 461' bls. water column = 461 - 994.3 = 533.3

DUPS COLLECTED, SAMPLE TIME 1227; SPLIT collected, SAMPLE TIME 1217

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 1/26/12 TASK: 532.03 WELL ID: MW-36

Time 948 Static DTW (ft below reference point)	75.63	Casing Volume (CV) (gallons) 320	3 CV (gallons) 960	Weather Conditions	Initials AMB & DM
Casing Total Depth (ft below reference point)	994.3	Purging Device ded pump	Sampling Device ded pipe stand	Time 948 Temp. 72° (0-10) Skies Clear	Begin Purge 949 End Purge 1113
Water Column (feet)	533.3	Pump: Depth (ft brp) 460 Type Grundfos Voltage 240 HP			Gallons Purged 964 CVs Purged 3.0
Casing Capacity (Diameter 4 ") (gallons per foot)	0.60	Monitor Well Recharge Rate: Slow Fast X		Wind (mph) 0-1 From	DTW (ft brp) 76.32 Time 1129

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (mS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
949	Pump ON										10.75 gpm
950	77.90	11	0.03	20.68	7.40	0.415	114.6	4.20	8.67		10.75
1006	78.11	183	0.6	21.05	7.54	0.406	82.6	0.74	1.51		10.75
1022	78.33	359	1.1	21.41	7.72	0.378	63.7	1.40	1.24		11
1038	78.59	535	1.7	21.43	7.82	0.383	66.4	1.20	1.68		11
1054	78.72	711	2.2	20.36	7.84	0.388	65.5	1.31	1.36		11
1106	78.80	887	2.8	21.03	7.87	0.389	66.1	2.32	5.02		11
1113	78.93	964	3.0	21.53	7.86	0.389	66.8	0.62	1.42		11

SAMPLE COLLECTION SAMPLE TIME 1113

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1+1	1 L Amber
8270 MOD 1,4 dioxane	~~1+1+1~~ NB	1 L Amber

DUPLICATES / SPLITS / BLANKS? (Y) N
If yes, complete appropriate forms.

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

Split @ 1123 dup @ 1133 MW-3600

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 08 /12 TASK: 532.30 WELL ID: MW-36

Time 1323 Static DTW (ft below reference point)	78.25	Casing Volume (CV) (gallons) 320 3 CV (gallons) 960	Weather Conditions	Initials EKB + EJH
Casing Total Depth (ft below reference point)	994.3	Purging Device ded. pump Sampling Device ded. pipe stick	Time 1324 Temp. 70	Begin Purge 1329 End Purge 1451
screen-bottom Water Column (feet)	5533	Pump: Depth (ft brp) 460 Type grundfos Voltage 240 HP	Skies Sunny	Gallons Purged 986 CVs Purged 5
Casing Capacity (Diameter 4 ") (gallons per foot)	0.6	Monitor Well Recharge Rate: Slow ____ Fast X	Wind (mph) 05 From S	DTW (ft brp) 78.70 Time 1455

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1329		—	Begin Pumping	—	—	—	—	—	—	—	
1330	80.10	14	0.05	20.46	8.65	0.578	49.2	3.58	1.05		11.1gpm
1345	80.61	183	0.6	21.20	8.18	0.579	-10.7	0.33	1.19		11.3gpm
1357	80.75	325	1.0	21.64	8.16	0.543	-5.7	0.44	1.38		11.4gpm
1406	80.82	436	1.4	21.66	8.10	0.582	2.1	0.48	0.70		
1422	80.87	613	1.9	21.74	8.05	0.588	17.6	0.06	0.75		11.3gpm
1434	80.95	~~745~~ 750	2.3	21.74	8.04	0.591	2.4	0.27	0.49		12gpm
1449	80.97	964	3.0	21.75	8.02	0.592	-5.7	0.03	0.61		12gpm
1451	—	986	3+	Pump Off							

SAMPLE COLLECTION SAMPLE TIME 1449

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3+3+3	40 ml VOA
8270 SIM 1,4 dioxane	1+1+1	1 L Amber
8270 MOD 1,4 dioxane		1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. (Y) N

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

MW-3600 @ 1400 (dup)
MW-36 @ 1449 (spl.7)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: P-07

Time 1415 Static DTW (ft below reference point)	111.05	Casing Volume (CV) (gallons) .9 3 CV (gallons) 2.7	Weather Conditions	Initials DM/AMB	
Casing Total Depth (ft below reference point)	116.38	Purging Device clean Sample bailer Sampling Device clean bailer	Time 1415 Temp. ~70° F	Begin Purge 1423 End Purge 1449	
Water Column (feet)	5.33	Pump: Depth (ft brp) NA Type Voltage HP	Skies Clear, sunny	Gallons Purged 2.75 CVs Purged 3.1	
Casing Capacity (Diameter 2") (gallons per foot)	0.17	Monitor Well Recharge Rate: Slow Fast ✓	Wind (mph) 0-5 From NE	DTW (ft brp) 115.19 Time 1503	

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (° C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1423	BEGIN BAILING										
1425	NM	0.1	0.1	22.88	7.53	2.184	134.1	~~8.~~ 7.76 AMB	3.62		
1432	NM	0.5	0.6	21.86	7.37	2.160	141.1	8.17	>1,000		turbidity too high to read
1437	NM	1.0	1.1	21.52	7.44	2.157	119.8	8.67	>1,000		
1441	NM	1.5	1.7	21.57	7.28	2.165	126.2	8.08	>1,000		
1446	NM	2.0	2.2	21.03	7.24	2.163	128.0	8.30	>1,000		
1449	NM	~~2.5~~ 2.75	3.1	21.59	7.24	2.161	128.2	8.36	>1,000		

SAMPLE COLLECTION SAMPLE TIME 1450

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	0	1 L Amber
8270 MOD 1,4 dioxane	1	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)

HARGIS + ASSOCIATES, INC.

GROUNDWATER SAMPLING INFORMATION

DATE: 02/ 9 /12 TASK: 532.30 WELL ID: P-09

Time 1034 Static DTW (ft below reference point)	120.59	Casing Volume (CV) (gallons) 6.2	3 CV (gallons) 18.6	Weather Conditions	Initials AMB, JDM
Casing Total Depth (ft below reference point)	130	Purging Device ded 4" bailer	Sampling Device ded. 4" bailer	Time 1030 Temp. ~	Begin Purge 1041 End Purge 1130
Water Column (feet)	9.4	Pump: Depth (ft brp) N/A Type	Voltage HP	Skies clear sunny	Gallons Purged 19 CVs Purged 3.1
Casing Capacity (Diameter 4 ") (gallons per foot)	0.66	Monitor Well Recharge Rate: Slow	Fast X	Wind (mph) 1-2 From S-SW	DTW (ft brp) 122.78 Time 1134

Time	Depth to Water	Volume Purged (Gallons)	Casing Volumes Purged	....FIELD PARAMETERS.... Temp. (°C)	pH	EC (µS/cm)	O.R.P. (mV)	D.O. (mg/L)	Turbidity (NTU)	Pump Frequency Hz	COMMENTS
1043	BEGIN BAILING										
1044	NM	1	0.2	22.00	7.15	3.421	163.2	5.56	9.63		Pause purge, troubleshoot equipment
1057	NM	3	0.5	22.95	6.95	3.492	144.5	5.56	6.46		Resume purge @ 1055
1102	NM	6	1.0	22.40	6.93	3.483	140.1	5.92	10.4		
1109	NM	9	1.5	21.98	6.94	3.424	138.1	6.00	9.4		
1114	NM	12	1.9	22.02	7.00	3.450	139.3	5.67	8.54		
1121	NM	15	2.4	22.10	6.92	3.461	135.7	5.86	8.76		
1130	NM	19	3.1	22.38	6.97	3.339	134.7	5.49	5.22		

SAMPLE COLLECTION SAMPLE TIME 1130

ANALYSIS	QUANTITY	TYPE
8260B VOCs	3	40 ml VOA
8270 SIM 1,4 dioxane	1	1 L Amber
8270 MOD 1,4 dioxane	~~0~~	1 L Amber

DUPLICATES / SPLITS / BLANKS? If yes, complete appropriate forms. Y (N)

AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA

NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.)