



HARGIS + ASSOCIATES, INC.

HYDROGEOLOGY • ENGINEERING

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August 1, 2012

VIA FEDERAL EXPRESS STANDARD

Mr. William F. Jeffers, PE
Hazardous Substances Engineer
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Southern California Region
9211 Oakdale Avenue
Chatsworth, CA 91311-6520

Re: Data Submittal for Groundwater Monitoring and Groundwater Extraction and Treatment Pilot Testing, Second Quarter 2012, Raytheon Company (Former Hughes Aircraft Company Facility), 1901 West Malvern Avenue, Fullerton, California

Dear Mr. Jeffers:

This letter has been prepared for the submittal of groundwater monitoring and groundwater treatment pilot testing data collected during the second quarter 2012 for the former Raytheon Company site located at 1901 West Malvern Avenue, Fullerton, California (the Site) (Figure 1). Groundwater monitoring activities were completed in general accordance with the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC)-approved Groundwater Monitoring Workplan and Sampling and Analysis Plan (GMWPSAP) and subsequent addenda (DTSC, 2003 and 2011; Hargis + Associates, Inc. [H+A], 2003, 2011a, and 2011b). Groundwater treatment pilot testing continued throughout the second quarter 2012 in general accordance with the DTSC-approved Groundwater Extraction and Treatment Pilot Testing, Corrective Measures Study Workplan Addendum No. 4A (DTSC, 2009; H+A, 2009a and 2009b). The results of the second quarter 2012 quarterly groundwater monitoring and pilot groundwater extraction and treatment system (GETS) operation from April through May 2012 are included in this data submittal.

GROUNDWATER MONITORING

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 May 2012 at all monitor wells and piezometers in general accordance with the GMWPSAP and Addendum No.1 (Table 1).

Water Level Measurement and Groundwater Sample Collection

Groundwater monitoring included water level measurements in all Site monitor wells, piezometers, and extraction wells (Figures 2 and 3). Water levels were measured on May 7, 2012 (Table 2).

Groundwater samples were collected during the period from May 7 through May 11, 2012 (Appendix A). Analytical results are summarized in Table 3 and provided in Appendix B. Additional groundwater monitoring was conducted as part of routine operation and monitoring of the pilot GETS. A summary of the pilot GETS operation and monitoring is provided separately below.

Original and field duplicate groundwater samples were analyzed by Advanced Technology Laboratories, Inc., Signal Hill, California (ATL) (Appendix B). Laboratory split groundwater samples were analyzed by Exova, formerly Bodycote Testing Group, Santa Fe Springs, California, as well as, Calscience, Garden Grove,

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California (Appendix B). Calscience has replaced Exova as the secondary laboratory (split samples), ATL will remain the primary laboratory (original and duplicate samples). Chain-of-custody documentation was enclosed with each sample shipment. Results of groundwater sample volatile organic compound (VOC) and 1,4-dioxane analyses have been summarized (Table 3).

Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) samples collected in May 2012 consisted of trip blanks, field duplicates, and laboratory split samples. Trip blanks were provided by ATL and Calscience. Field duplicate and/or laboratory split samples were collected for analysis of VOCs and 1,4-dioxane from extraction well MW-21, as well as monitor wells MW-29 and MW-34B in May 2012 (Table 3). The relative percent difference was calculated between the results of each field duplicate and each laboratory split sample with its corresponding original sample. This data quality assessment indicated that all QA/QC results for groundwater samples are within acceptable criteria.

There were no detections of VOCs or 1,4-dioxane in the trip and/or laboratory method blanks analyzed with groundwater samples collected during the May 2012 groundwater monitoring event (Table 3; Appendix B).

The data quality assessment also included review of laboratory QA/QC results. Laboratory QA/QC results are within acceptable criteria.

GROUNDWATER EXTRACTION AND TREATMENT PILOT STUDY

This section summarizes the pilot GETS operation within the two-month period of monitoring conducted during the second quarter of 2012. The pilot GETS consists of three groundwater extraction wells, the treatment system, and the disposal system; however, the current phase of pilot testing is operating using 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 wells EW-02 and the previously utilized extraction wells MW-21 and EW-01 have been provided (Figure 4).

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 is 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 were operated at approximately 40 gpm and 10 gpm, respectively. The synthetic media pilot test was completed on March 9, 2012, and operation of the pilot GETS was restored to 50 gpm, entirely from extraction well EW-02. Extraction wells EW 01 and MW-21 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.

During the second quarter 2012, the pilot GETS was operational approximately 84 percent of the available runtime and approximately 3,541,543 gallons of groundwater were treated and discharged to the sanitary sewer (Table 4). The average monthly discharge flowrate to the sanitary sewer during April through May 2012 was

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approximately 40.3 gpm. Since startup of the pilot GETS, approximately 53,002,396 gallons of groundwater have been treated at an average flowrate of 25.7 gpm through the end of May 2012 (Table 4).

Current monthly and quarterly pilot GETS monitoring activities include collecting samples from extraction well EW-02 in addition to collecting samples at treatment system sampling ports: Extraction Well EW-02, Influent, Post Particulate Filter, Post HiPOx Oxidation, Carbon Breakthrough, and Carbon Effluent (Tables 5 and 6; Figure 5). Samples collected during these activities were sent to ATL. Analytical results of the treatment system samples have been summarized (Table 6; Appendix B).

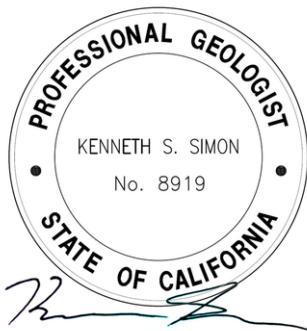
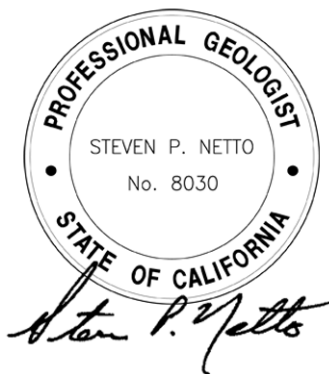
The pilot GETS continues to remove VOCs and 1,4-dioxane from extracted groundwater. The HiPOx ozone/peroxide advanced oxidation and carbon adsorption treatment units effectively removed VOCs from extracted groundwater. Breakthrough of low-level detections of VOCs was not observed in the second quarter 2012 monitoring samples with the exception of detections of 1,1-dichloroethane at concentrations ranging from 1.2 micrograms per liter (ug/l) to 0.89 ug/l which are just above the laboratory reporting limit, but below the pilot GETS permitted sewer discharge limit. 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 second 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 6).

During the second quarter of 2012, the pilot GETS removed approximately 1.27 pounds of VOCs and 0.44 pounds of 1,4-dioxane from extracted groundwater. Since startup of the pilot GETS in July 2008, approximately 108.1 pounds of VOCs and 18.1 pounds of 1,4-dioxane have been removed from groundwater through May 2012 (Figure 7).

If you have any questions or require additional information, please contact us at 858-455-6500.

Sincerely,

HARGIS + ASSOCIATES, INC.



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REFERENCES

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- _____, 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.
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- _____, 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. 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.

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- Figure 7. Pilot Groundwater Extraction and Treatment System Mass Removal

Appendices

- Appendix A. Groundwater Sampling Field Forms (Provided on CD only)
- Appendix B. Laboratory Analytical Reports (Provided on CD only)

cc w/encl: (1 copy w-CD)

Mr. Paul Pongetti, Department of Toxic Substances Control, Cypress
Mr. Paul E. Brewer, Raytheon Company
Mr. Carl Bernhardt, California RWQCB, Santa Ana Region
Mr. Dave Mark, Orange County Water District
Mr. Duc Nguyen, Orange County Public Works
Mr. Eric Silvers, Regency Centers
Ms. Denise Gerstenberg, Cushman & Wakefield of California, Inc.

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Mr. Dave Schickling, City of Fullerton

(1 CD only)

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Ms. Tizita Bekele, PE, Department of Toxic Substances Control, Cypress
Mr. Steve Liao, City of Buena Park

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



TABLE 2

**GROUNDWATER LEVELS
SECOND QUARTER 2012**

| Well Identifier | Date Measured | Reference Point Elevation (a) (feet msl) | Depth to Water (feet bls) | Water Level Elevation (feet msl) | Remediation System On |
|---|---------------|--|---------------------------|----------------------------------|-----------------------|
| <u>Regional Groundwater System Monitor and Extraction Wells</u> | | | | | |
| MW-06 | 05/07/12 | 184.70 | 149.37 | 35.33 | |
| MW-08 | 05/07/12 | 155.91 | 127.33 | 28.58 | |
| MW-09 | 05/07/12 | 180.10 | 147.54 | 32.56 | |
| MW-13 | 05/07/12 | 142.19 | 110.72 | 31.47 | |
| MW-15 | 05/07/12 | 144.92 | 125.83 | 19.09 | |
| MW-16 | 05/07/12 | 142.73 | 115.07 | 27.66 | |
| MW-17 | 05/07/12 | 142.66 | 111.26 | 31.40 | |
| MW-18 | 05/07/12 | 142.11 | 111.11 | 31.00 | |
| MW-19 | 05/07/12 | 142.72 | 111.03 | 31.69 | |
| MW-20 | 05/07/12 | 184.19 | 144.24 | 39.95 | |
| MW-21 | 04/02/12 | 141.18 | 114.08 | 27.10 | |
| | 05/07/12 | 141.18 | 111.08 | 30.10 | |
| MW-22 | 05/07/12 | 138.65 | 107.13 | 31.52 | |
| MW-23 | 05/07/12 | 137.33 | 106.79 | 30.54 | |
| MW-24 | 05/07/12 | 142.83 | 110.05 | 32.78 | |
| MW-25 | 05/07/12 | 142.64 | 107.92 | 34.72 | |
| MW-26A | 05/07/12 | 137.04 | 112.82 | 24.22 | |
| MW-26B | 05/07/12 | 137.05 | 120.17 | 16.88 | |
| MW-26C | 05/07/12 | 137.22 | 110.60 | 26.62 | |
| MW-27 | 05/07/12 | 137.16 | 110.03 | 27.13 | |
| MW-28 | 05/07/12 | 140.77 | 114.45 | 26.32 | |
| MW-29 | 05/07/12 | 142.34 | 117.12 | 25.22 | |
| MW-30A | 05/07/12 | 129.44 | 103.59 | 25.85 | |
| MW-30B | 05/07/12 | 129.39 | 101.72 | 27.67 | |

TABLE 2
**GROUNDWATER LEVELS
SECOND QUARTER 2012**

| Well Identifier | Date Measured | Reference Point Elevation (a) (feet msl) | Depth to Water (feet bls) | Water Level Elevation (feet msl) | Remediation System On |
|---|---------------|---|------------------------------|-------------------------------------|-----------------------|
| <u>Regional Groundwater System Monitor and Extraction Wells (continued)</u> | | | | | |
| MW-31 | 05/07/12 | 119.60 | 92.21 | 27.39 | |
| MW-32A | 05/07/12 | 92.88 | 66.57 | 26.31 | |
| MW-32B | 05/07/12 | 92.89 | 66.54 | 26.35 | |
| MW-32C | 05/07/12 | 92.88 | 61.18 | 31.70 | |
| MW-33 | 05/07/12 | 83.19 | 57.78 | 25.41 | |
| MW-34A | 05/07/12 | 153.25 | 126.22 | 27.03 | |
| MW-34B | 05/07/12 | 153.11 | 127.89 | 25.22 | |
| MW-34C | 05/07/12 | 153.29 | 128.10 | 25.19 | |
| MW-35A | 05/07/12 | 93.57 | 60.11 | 33.46 | |
| MW-35B | 05/07/12 | 93.56 | 65.67 | 27.89 | |
| MW-35C | 05/07/12 | 93.55 | 66.84 | 26.71 | |
| MW-36 | 05/07/12 | 86.65 | 61.99 | 24.66 | |
| EW-01 | 05/07/12 | 141.07 | 113.04 | 28.03 | |
| EW-02 | 04/02/12 | 132.97 | 116.19 | 16.78 | Pilot GETS |
| | 04/16/12 | 132.97 | 114.57 | 18.40 | Pilot GETS |
| | 05/01/12 | 132.97 | 113.65 | 19.32 | Pilot GETS |
| | 05/07/12 | 132.97 | 113.55 | 19.42 | Pilot GETS |
| <u>Perched Zone Water Levels</u> | | | | | |
| P-07 | 05/07/12 | 142.31 | 110.72 | 31.59 | |
| P-09 | 05/07/12 | 183.86 | 120.57 | 63.35 | |

FOOTNOTES

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

bls = Below land surface

msl = Mean sea level

Pilot GETS = Pilot Groundwater Extraction and Treatment System On

TABLE 3

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER
SECOND QUARTER 2012

| | | | Concentration (micrograms per liter) | | | | | | | | | | | | | Semi-VOCS |
|---|-----------------|------------------|---|------------------------------------|-----------------------|-------------------|--------------------|------------------|-----------------------|---------------|------------------------|--------------------|---------------|------------------|------------------------|-------------------------|
| | | | VOLATILE ORGANIC COMPOUNDS (FEDERAL MCL/CALIFORNIA MCL) | | | | | | | | | | | | | |
| 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 (5/0.5) | 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-08 | 05/11/12 | ORG | <1.0 | <1.0 | <1.0 | 1.4 | <1.0 | 340 | 5.0 | 1.1 | <1.0 | <1.0 | 120 | <1.0 | <1.0 | 6.3 |
| 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 - 10 | < 0.50 - 1.3 | < 0.50 - < 5.0 | < 0.50 - < 5.0 | < 0.50 - 480 | < 0.50 - 1.0 | < 0.50 | < 0.5 - 130 |
| MW-21 | 05/07/12 | ORG | <4.0 | <4.0 | <4.0 | 6.5 | <4.0 | 490 | <4.0 | <4.0 | <4.0 | <4.0 | 11 | <4.0 | <4.0 | 23 |
| MW-2100 | 05/07/12 | FD | <4.0 | <4.0 | <4.0 | 6.3 | <4.0 | 480 | <4.0 | <4.0 | <4.0 | <4.0 | 12 | <4.0 | <4.0 | 19 |
| 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-26C | 05/09/12 | 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 | 6.6 | <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-28 | 05/11/12 | ORG | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.99 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.22 |
| MW-28 Historical Range*** | | | < 0.50 | < 0.50 | < 0.50 | < 0.50 - 0.94 | < 0.50 | 0.84 - 76 E | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.20 - 19 |
| MW-29 | 05/11/12 | ORG | <4.0 | <4.0 | <4.0 | 8.3 | <4.0 | 780 | <4.0 | 5.7 | <4.0 | <4.0 | 6.2 | <4.0 | <4.0 | 300 |
| MW-2900 | 05/11/12 | FD | <5.0 | <5.0 | <5.0 | 8.5 | <5.0 | 830 | <5.0 | <5.0 | <5.0 | <5.0 | 5.3 | <5.0 | <5.0 | 280 |
| MW-29 | 05/11/12 | SPT ^E | < 1 | < 1 | < 1 | 5 | 1 | 550 | < 1 | 1 | < 1 | 2 | 4 | 1 | < 1 | 300 |
| Note: Tert-Butyl Alcohol was detected in the Exova Split sample collected at MW-29 on 5/11/12 at 10 ug/l. | | | | | | | | | | | | | | | | |
| MW-29 | 05/11/12 | SPT ^C | < 0.50 | < 0.50 | < 1.0 | 6.0 | 1.1 | 730 | < 1.0 | 1.1 | < 1.0 | 2.1 | 4.6 | < 10 | < 1.0 | 290 |
| MW-29 Historical Range*** | | | < 0.50 - < 1.0 | < 0.50 - < 1.0 | < 0.50 - 0.80 | 1 - 9.2 | < 0.50 - 1.4 | 99 - 900 E | < 0.50 - < 0.61 | < 0.50 - 1.5 | < 0.50 - < 1.0 | < 0.50 - 2.3 | 0.58 - 7.5 | < 0.50 - 1.2 | < 0.50 | 29 - 301 |
| MW-30A | 05/10/12 | 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-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 | < 0.20 - 110 |
| MW-30B | 05/10/12 | ORG | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 12 | 3.8 | <0.50 | <0.50 | <0.50 | 63 | <0.50 | 1.8 | 0.27 |
| MW-30B Historical Range*** | | | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 - 18 E | < 0.50 - 5.6 | < 0.50 | < 0.50 | < 0.50 | < 0.50 - 87 | < 0.50 | < 0.50 - 4.5 | < 0.20 - 28 E |
| MW-31 | 05/11/12 | ORG | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 48 | <0.50 | <0.50 | <0.50 | <0.50 | 5.9 | <0.50 | 0.75 | 0.49 |
| 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 | 05/08/12 | 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-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 | 05/08/12 | ORG | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 39 | 2.8 | <0.50 | <0.50 | <0.50 | 30 | <0.50 | <0.50 | 1.4 |
| 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 | 05/08/12 | ORG | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 0.56 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.20 |
| Historical High/Low | | | | | | | | | | HIGH | | | | | | |
| 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 | < 2.0 - 1.0 |
| MW-33 | 05/08/12 | ORG | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 4.2 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 0.83 | < 0.50 | < 0.50 | < 0.20 |
| MW-33 Historical Range*** | | | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 1.7 - 12 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 - 1.6 | < 0.50 | < 0.50 - 1.4 | < 0.20 - < 2.0 |
| MW-34A | 05/10/12 | ORG | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 1.1 | < 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 - 1.6 | < 0.50 - 2.8 | < 0.20 - < 2.0 | |

TABLE 3

PREVALENT VOLATILE ORGANIC COMPOUNDS AND 1,4-DIOXANE IN GROUNDWATER
SECOND QUARTER 2012

| | | | 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 (5/0.5) | 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) | Toluene (1,000/150) | 1,4-DIOXANE (3*/1**) |
| Regional Groundwater System Monitor and Extraction Wells (cont'd) | | | | | | | | | | | | | | | | |
| MW-34B | 05/10/12 | ORG | < 0.50 | < 0.50 | < 0.50 | 2.3 | < 0.50 | 120 | < 0.50 | < 0.50 | < 0.50 | 0.60 | < 0.50 | < 0.50 | < 0.50 | 58 |
| MW-34B | 05/10/12 | SPT ^E | < 1 | < 1 | < 1 | 1 | < 1 | 120 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 63 |
| MW-34B | 05/10/12 | SPT ^C | < 0.50 | < 0.50 | < 1.0 | 1.6 | < 0.50 | 110 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 10 | < 1.0 | 62 |
| 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 - 2.6 | 4.1 - 196 |
| MW-34C | 05/10/12 | 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 - 9.6 | < 0.20 - < 2.0 |
| MW-35A | 05/09/12 | ORG | <0.50 | <0.50 | 2.1 | <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 | 4.4 - 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 | 05/09/12 | 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-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 | 05/09/12 | 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-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 | 05/10/12 | ORG | < 0.50 | < 0.50 | < 0.50 | 0.52 | < 0.50 | 45 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 1.1 | 2.8 |
| Historical High/Low | | | | | | HIGH | | HIGH | | | | | | | LOW | HIGH |
| MW-36 Historical Range*** | | | < 0.50 | < 0.50 | < 0.50 - 120 | < 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 | 05/07/12 | ORG | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 18 | <0.50 | 0.78 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 7.0 |
| 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 | < 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 | 04/16/12 | ORG | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 45 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 14 |
| EW-02 | 05/01/12 | ORG | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 37 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 13 |
| Historical High/Low | | | | | | | | LOW | | | | | | | | |
| EW-02 Historical Range*** | | | < 0.50 | < 0.50 | < 0.50 | < 0.50 - 1.5 | < 0.50 | 52 - 160 | < 0.50 | < 0.50 | < 0.50 | < 0.50 - 0.59 | < 0.50 | < 0.50 | < 0.50 - 0.85 | 6.4 - 48 |
| QUALITY ASSURANCE/QUALITY CONTROL SAMPLES | | | | | | | | | | | | | | | | |
| TB-041612 | 04/16/12 | 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-050712 | 05/07/12 | 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 |
| TB-050812 | 05/08/12 | 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-050912 | 05/09/12 | 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-051012 | 05/10/12 | 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-051012A | 05/10/12 | 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-051012B | 05/10/12 | TB-SPT | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | NA |
| TB-051012C | 05/10/12 | TB-SPT | < 0.50 | < 0.50 | < 1.0 | < 1.0 | < 0.50 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | NA |
| TB-051112 | 05/11/12 | 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-051112 | 05/11/12 | 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 | < 2.0 |

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

FOOTNOTES

1,1-DCA = 1,1-Dichloroethane
 1,2-DCA = 1,2-Dichloroethane
 1,1-DCE = 1,1-Dichloroethene
 cis-1,2-DCE = cis-1,2-Dichloroethene
 PCE = Tetrachloroethene
 1,1,1-TCA = 1,1,1-Trichloroethane
 1,1,2-TCA = 1,1,2-Trichloroethane

TCE = Trichloroethene
 TCFM = Trichlorofluoromethane
 (<) = Less than; the value is the Limit of Detection for that compound
 * = 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
 Semi-VOCS = Semivolatile organic compounds

NA = Not analyzed for constituent
 FD = Field duplicate sample
 ORG = Original sample
 QA = Quality Assurance
 SPT^E = Split sample; analysis by Exova
 SPT^C = Split sample; analysis by Calscience
 RB = Rinsate blank sample
 TB = Trip blank sample
 ug/l = Micrograms per liter
 MCL = Maximum contaminant level

TABLE 4

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% |
| Apr-12 | 1,833,137 | 42.4 | 48.1 | 636 | 720 | 88% |
| May-12 | 1,708,406 | 38.3 | 48.1 | 592 | 744 | 80% |
| 2Q2012 | 3,541,543 | 40.3 | 48.1 | 1,228 | 1,464 | 84% |
| SINCE INCEPTION | 53,002,396 | 25.7 | 36.3 | 24,339 | 34,344 | 71% |

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 2011 operational summary
Treatment of groundwater from EW-02 initiated in 2010
CEFF = Carbon effluent

**TABLE 5
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLING SCHEDULE**

| COMPOUND(S) / CONSTITUENT | ANALYTICAL METHOD | SAMPLE CONTAINER | REPORTING DETECTION LIMITS (milligrams per liter) | SAMPLE FREQUENCY AND LOCATION | | | | | | | | | | | | | | | |
|---|-------------------|---|---|---|------------------|----------------------|--|--------------------|--|------------------|----------------------|--|--------------------|---|------------------|----------------------|--|--------------------|---|
| | | | | Daily Samples ¹ : Days 1-5 | | | | | Weekly Samples ¹ : Weeks 1-4 | | | | | Monthly Samples: Week 5+ | | | | | Quarterly Samples: Week 1+ |
| | | | | Extraction Well head (EW-02) ² | Post-Filter (PF) | Post-Oxidation (POX) | Carbon Breakthrough (CBT) ³ | Post-Carbon (CEFF) | Extraction Well head (EW-02) ² | Post-Filter (PF) | Post-Oxidation (POX) | Carbon Breakthrough (CBT) ³ | Post-Carbon (CEFF) | Extraction Well head (EW-02) ² | Post-Filter (PF) | Post-Oxidation (POX) | Carbon Breakthrough (CBT) ³ | Post-Carbon (CEFF) | Extraction Well head (EW-02) ² |
| COMPOUNDS/CONSTITUENTS NORMALLY REQUIRED AS PART OF NPDES OR WDR PERMITS, PURSUANT TO CRWQCB REGION 8 ORDER NO. R8-2003-008: | | | | | | | | | | | | | | | | | | | |
| Volatile Organic Compounds | 8260B | 3 - 40 mL VOA, HCl | QAPP ⁴ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 1,4-Dioxane | 8270 Modified | 1 L Amber | 0.002 | X | | | | | | X | | | | | | | | | |
| 1,4-Dioxane | 8270 SIM | 1L Amber | 0.0002 | | | X | | | | | X | | | | | | | | |
| Total Suspended Solids | SM2540D | 250 mL poly | 10 | (a) | (a) | | | | | | | | | X | X | | | | |
| Total Dissolved Solids | SM2540C | 250 mL poly | 10 | (a) | | | | | | | | | | X | | X | | | |
| SELECTED METALS | | | | | | | | | | | | | | | | | | | |
| Dissolved Metals (Iron, Manganese, Calcium, Sodium, Magnesium) | 6010B | 500 mL poly | QAPP ⁴ | (a) | | | | | | | | | | | | | | X | |
| Selenium | 6010B | 500 mL poly, HNO ₃ | QAPP ⁴ | | | | | | | | | | | | | | | X | |
| SELECTED INORGANIC CONSTITUENTS | | | | | | | | | | | | | | | | | | | |
| Hydroxide Alkalinity | SM2320B | 250 mL poly | 2.0 | (a) | | | | | | | | | | | | | | X | |
| Bicarbonate Alkalinity | SM2320B | 250 mL poly | 2.0 | (a) | | | | | | | | | | | | | | X | |
| Carbonate Alkalinity | SM2320B | 250 mL poly | 2.0 | (a) | | | | | | | | | | | | | | X | |
| Total Alkalinity | SM2320B | 250 mL poly | 2.0 | (a) | | | | | | | | | | | | | | X | |
| BROMATE EVALUATION | | | | | | | | | | | | | | | | | | | |
| Bromate | 317.0 | 125 mL poly | 0.0005 | X | | X | | | X | X | X | X | X | X | X | X | X | | |
| Bromide | 300.0 | 125 mL poly | 0.05 | X | | X | | | X | X | X | X | X | X | X | X | X | | |
| OTHER CONSTITUENTS/COMPOUNDS | | | | | | | | | | | | | | | | | | | |
| Total Organic Carbon | SM5310B | 3 - 40 mL VOA, HCl | 3.0 | (a) | | | | | | | | | | | | | | X | X |
| Anions (Chloride, Sulfate, Nitrate, Nitrite, and Phosphate) | 300.0 | 500 mL poly | Varies | (a) | | | | | | | | | | | | | | X | X |
| Chemical Oxygen Demand | 410.4 | 125 mL poly, H ₂ SO 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 | X | | |
| Electrical Conductance (EC) | N/A | N/A | N/A | X | | 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 | X | | |
| Temperature | N/A | N/A | N/A | X | | 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 | 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 | | | | | |

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
 HNO₃ = Nitric acid
 H₂SO₄ = Sulfuric acid

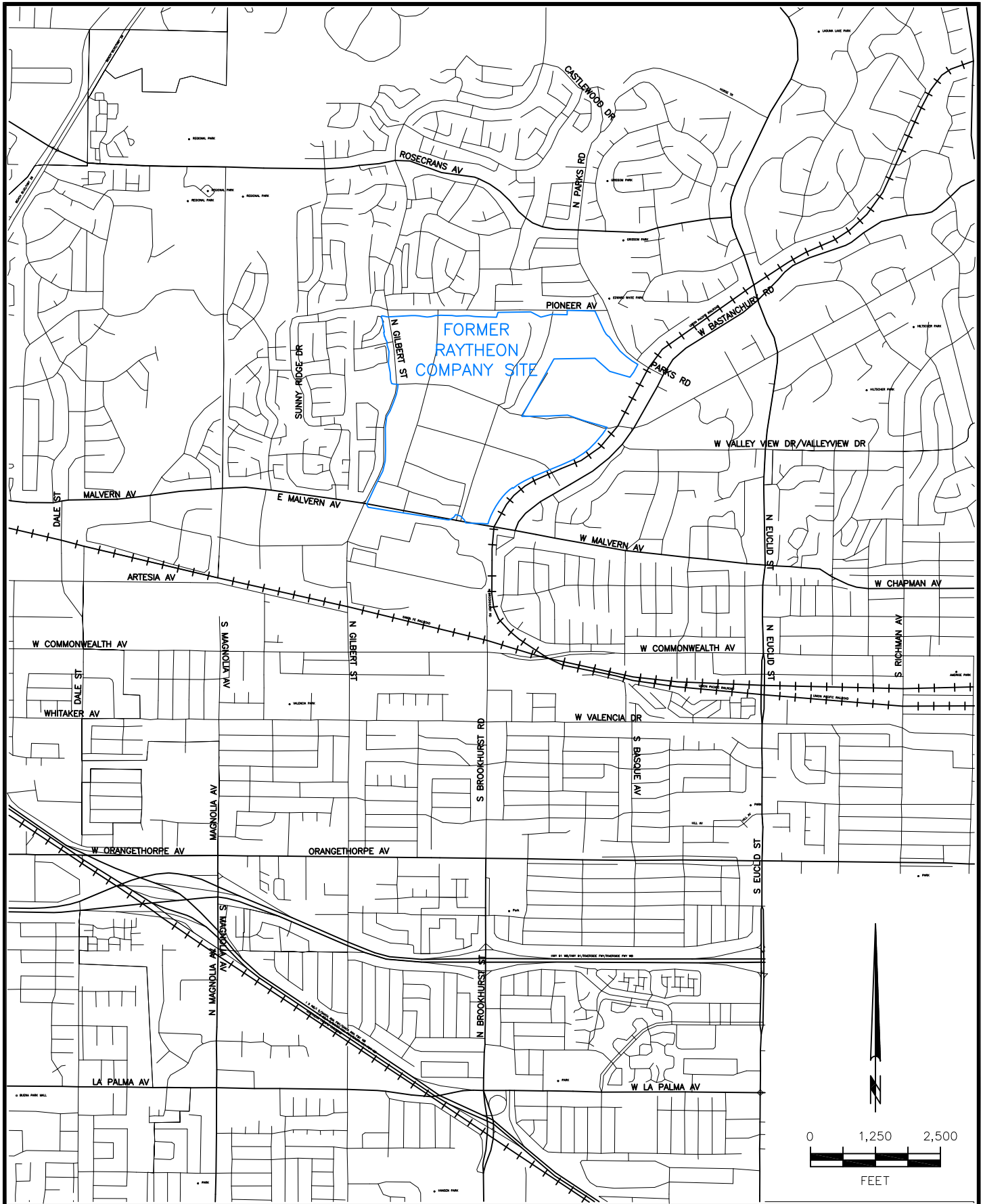
TABLE 6
SUMMARY OF SELECT COMPOUNDS DETECTED IN
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM SAMPLES
SECOND QUARTER 2012

| Compound | Date | Units | MW-21 | EW-01 | EW-02 | INF* | PF | POX | CBT | CEFF |
|---|----------|-------|-------|--------|--------|------|------|--------|--------|--------|
| 1,1,2-Trichloroethane (5 ug/L MCL) | 04/16/12 | ug/L | -- | -- | < 0.50 | -- | -- | <0.50 | <0.50 | <0.50 |
| | 05/01/12 | ug/L | -- | -- | < 0.50 | -- | -- | <0.50 | <0.50 | <0.50 |
| | 05/07/12 | ug/L | < 4.0 | < 0.50 | -- | -- | -- | -- | -- | -- |
| 1,1-Dichloroethane (5 ug/L MCL) | 04/16/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | 0.73 | 1.2 |
| | 05/01/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | 0.56 | 0.89 |
| | 05/07/12 | ug/L | 6.5 | < 0.50 | -- | -- | -- | -- | -- | -- |
| 1,1-Dichloroethene (6 ug/L MCL) | 04/16/12 | ug/L | -- | -- | 45 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/01/12 | ug/L | -- | -- | 37 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/07/12 | ug/L | 490 | 18 | -- | -- | -- | -- | -- | -- |
| 1,2-Dichloroethane (0.5 ug/L MCL) | 04/16/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/01/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/07/12 | ug/L | < 4.0 | < 0.50 | -- | -- | -- | -- | -- | -- |
| cis-1,2-Dichloroethene (6 ug/L MCL) | 04/16/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/01/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/07/12 | ug/L | < 4.0 | < 0.50 | -- | -- | -- | -- | -- | -- |
| Tetrachloroethene (5 ug/L MCL) | 04/16/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/01/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/07/12 | ug/L | < 4.0 | 0.78 | -- | -- | -- | -- | -- | -- |
| Trichloroethene (5 ug/L MCL) | 04/16/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/01/12 | ug/L | -- | -- | < 0.50 | -- | -- | < 0.50 | < 0.50 | < 0.50 |
| | 05/07/12 | ug/L | 11 | < 0.50 | -- | -- | -- | -- | -- | -- |
| 1,4-Dioxane (1 ug/L California Notification Level) | 04/16/12 | ug/L | -- | -- | 14 | -- | -- | 0.27 | -- | -- |
| | 05/01/12 | ug/L | -- | -- | 13 | -- | -- | <0.13 | -- | -- |
| | 05/07/12 | ug/L | 23 | 7.0 | -- | -- | -- | -- | -- | -- |
| Bromide | 04/16/12 | ug/L | -- | -- | 190 | -- | -- | 190 | -- | 210 |
| | 05/01/12 | ug/L | -- | -- | 280 | -- | -- | 280 | -- | 310 |
| Bromate (10 ug/L MCL) | 04/16/12 | ug/L | -- | -- | < 0.5 | -- | -- | 6 | -- | 7.1 |
| | 05/01/12 | ug/L | -- | -- | < 0.5 | -- | -- | 8 | -- | 6.3 |
| Total Non-Filterable Residue | 04/16/12 | mg/L | -- | -- | < 10 | -- | < 10 | -- | -- | -- |
| | 05/01/12 | mg/L | -- | -- | < 10 | -- | < 10 | -- | -- | -- |
| Total Filterable Residue (500 mg/L MCL) | 04/16/12 | mg/L | -- | -- | 620 | -- | -- | 630 | -- | 660 |
| | 05/01/12 | mg/L | -- | -- | 600 | -- | -- | 600 | -- | 600 |

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 numerical value is the Limit of Detection for that compound
 INF* = Influent (same as EW-02, when active)
 PF = Post Particulate Filter
 POX = Post Hipox Oxidation
 CBT = Carbon Breakthrough
 CEFF = Carbon Effluent

May 11, 2011 10:09am ADE - T:\2011\500-599\532_Raytheon\Hydrogeology\H+A_Base\Maps\410-8281.dwg



HARGIS+ASSOCIATES, INC.
Hydrogeology/Engineering

5/11 | RPT NO. 532.31 | 410-8281 | A

FIGURE 1. SITE LOCATION

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

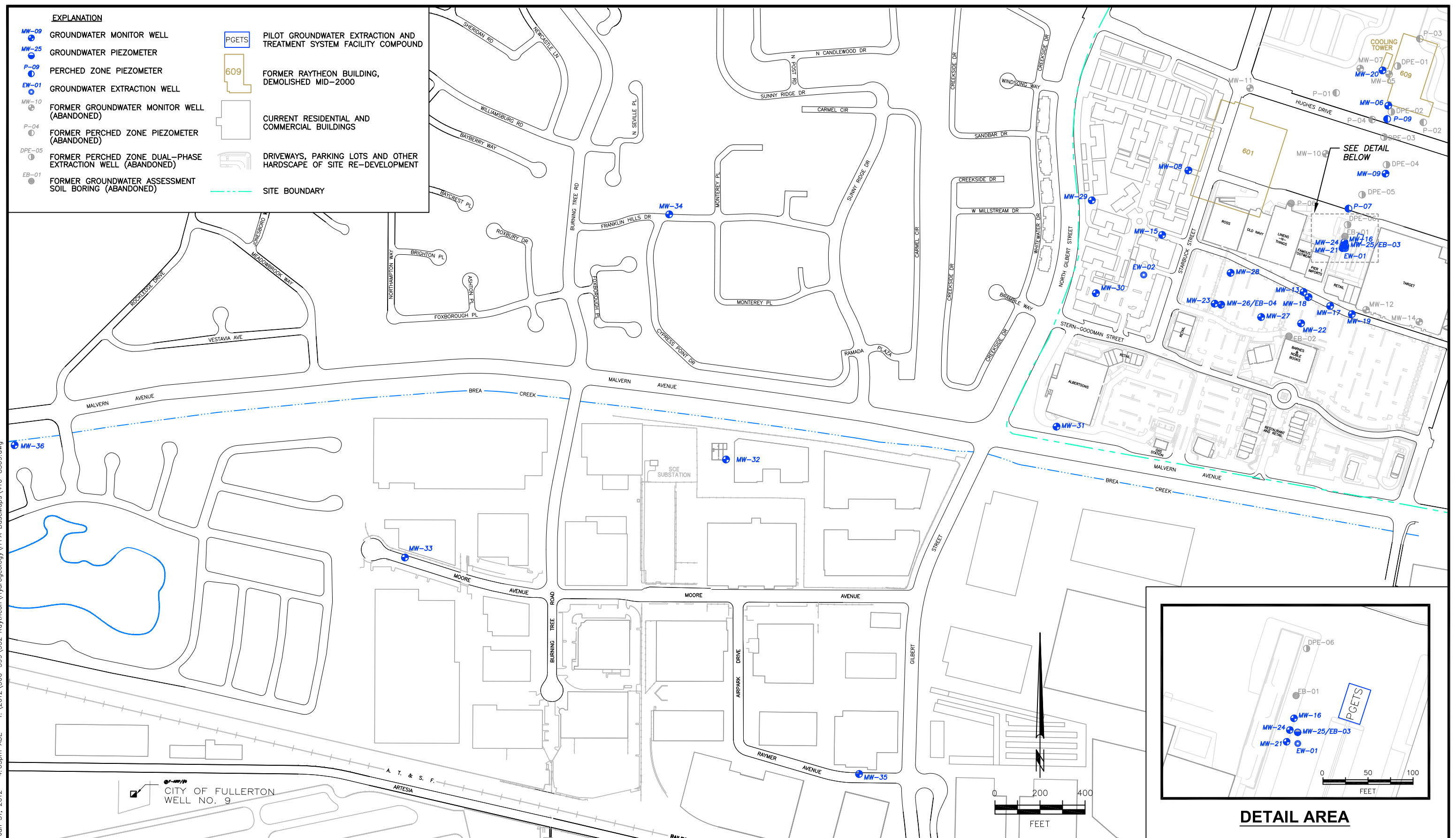
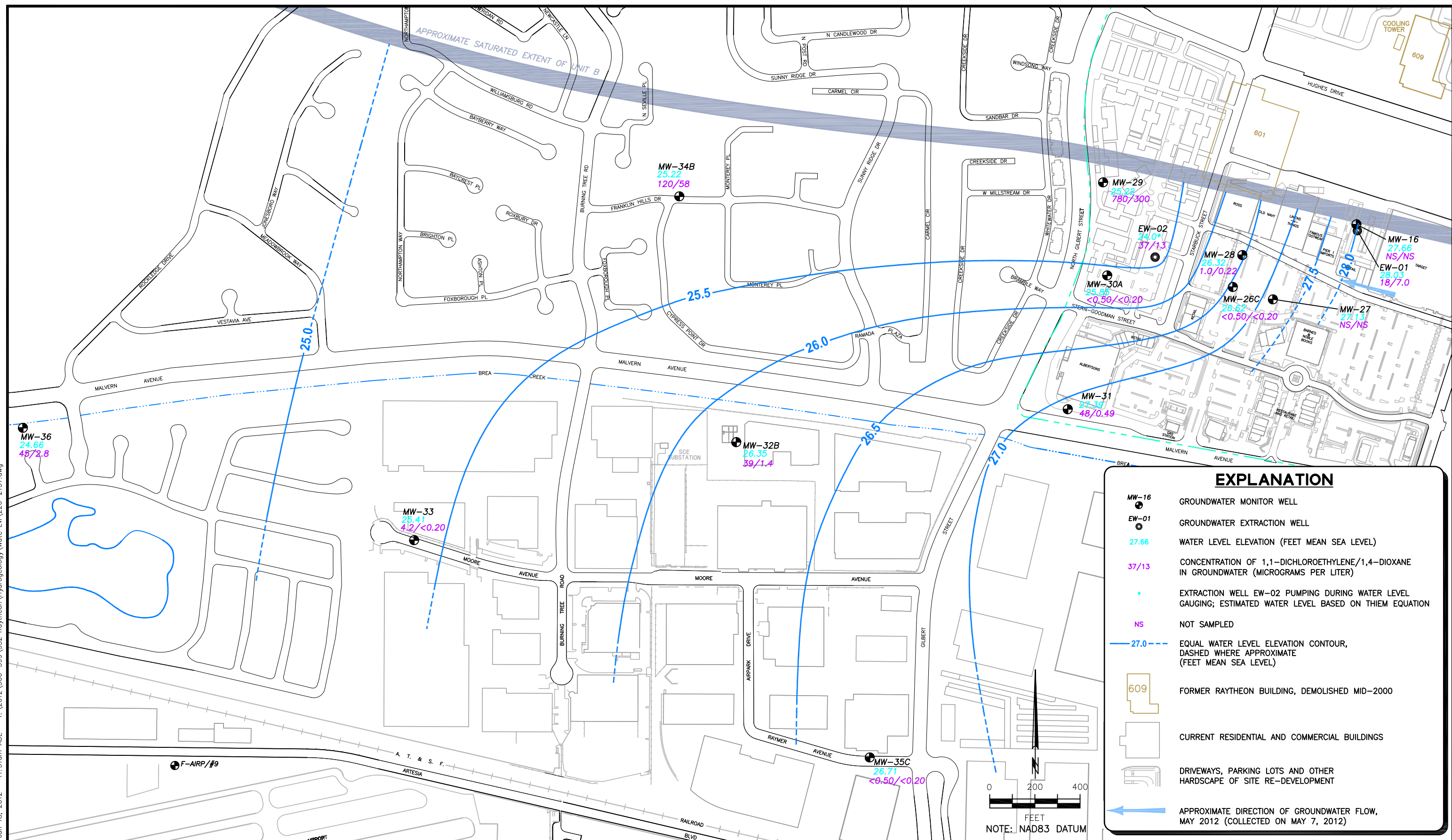


FIGURE 2.
WELL AND PIEZOMETER LOCATIONS

Jun 18, 2012 11:51am ADE - T:\2012\500-599\532 Raytheon\Hydrogeology\Wate Lvl\220-2157.dwg



**FIGURE 3.
WATER LEVEL AND WATER QUALITY UNIT B
MAY 2012**

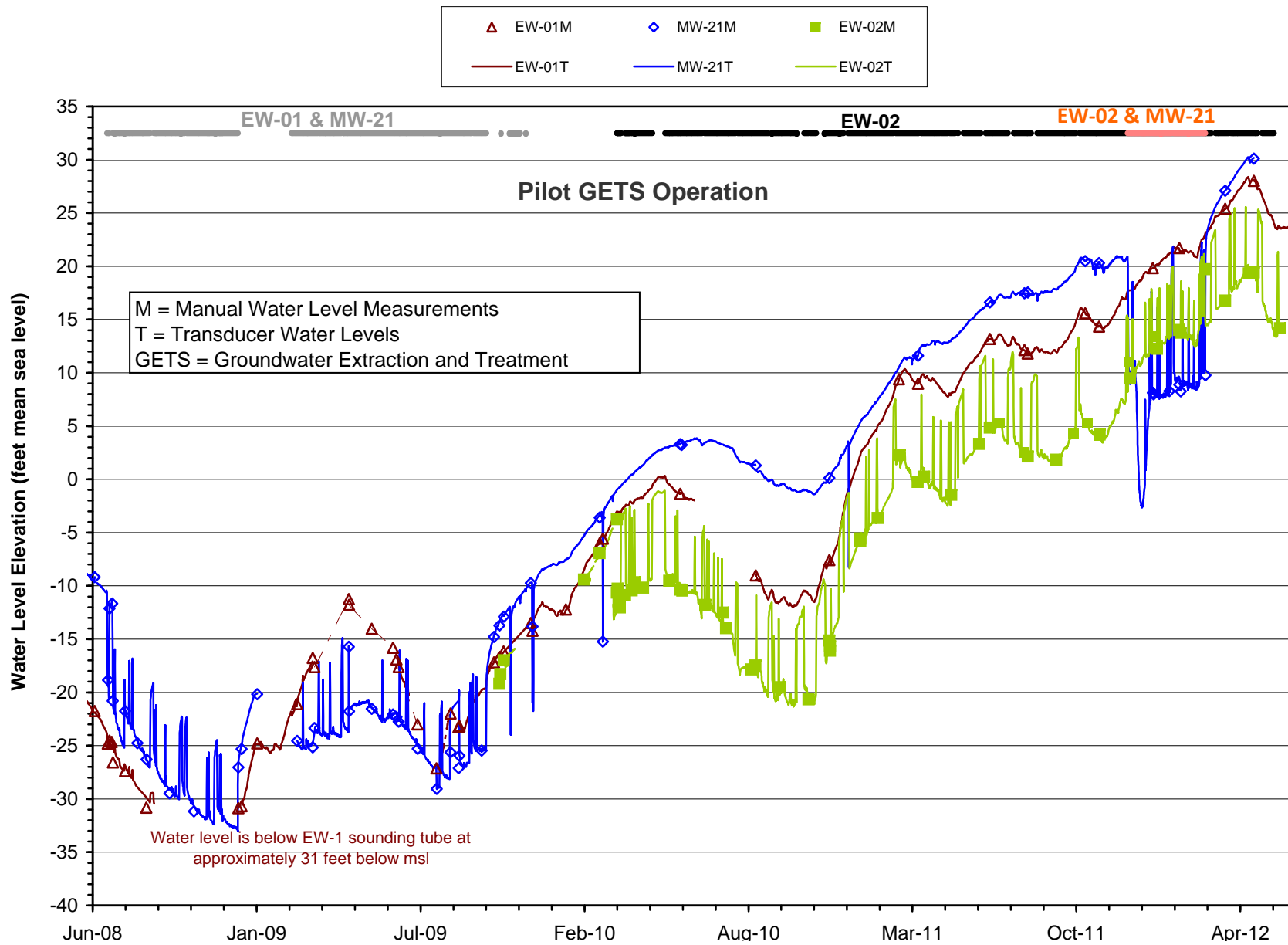


FIGURE 4.
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM OPERATION
AND EXTRACTION WELL WATER LEVELS

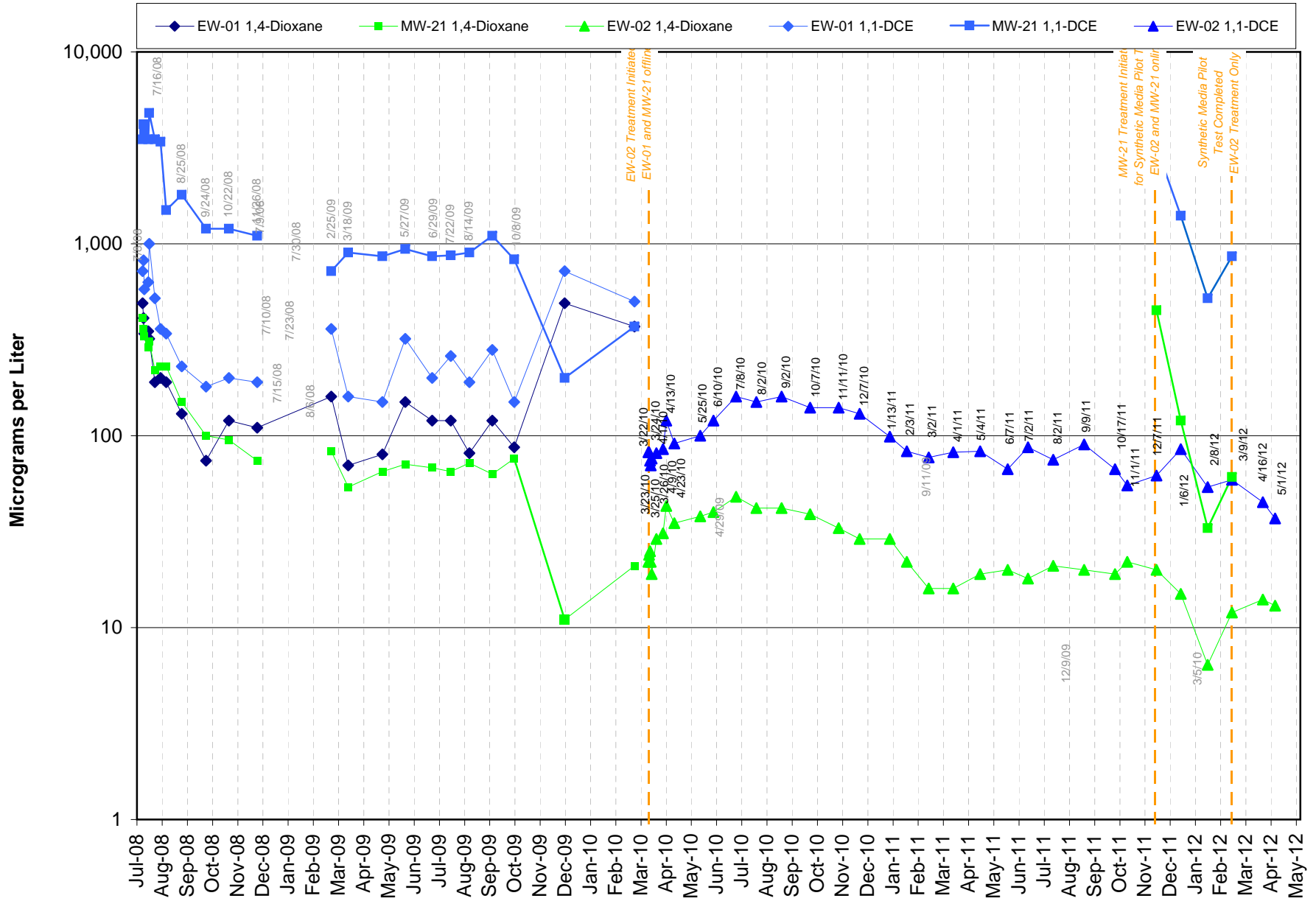


FIGURE 5.
1,1-DICHLOROETHYLENE AND 1,4-DIOXANE IN
EXTRACTION WELLS EW-01, MW-21, AND EW-02

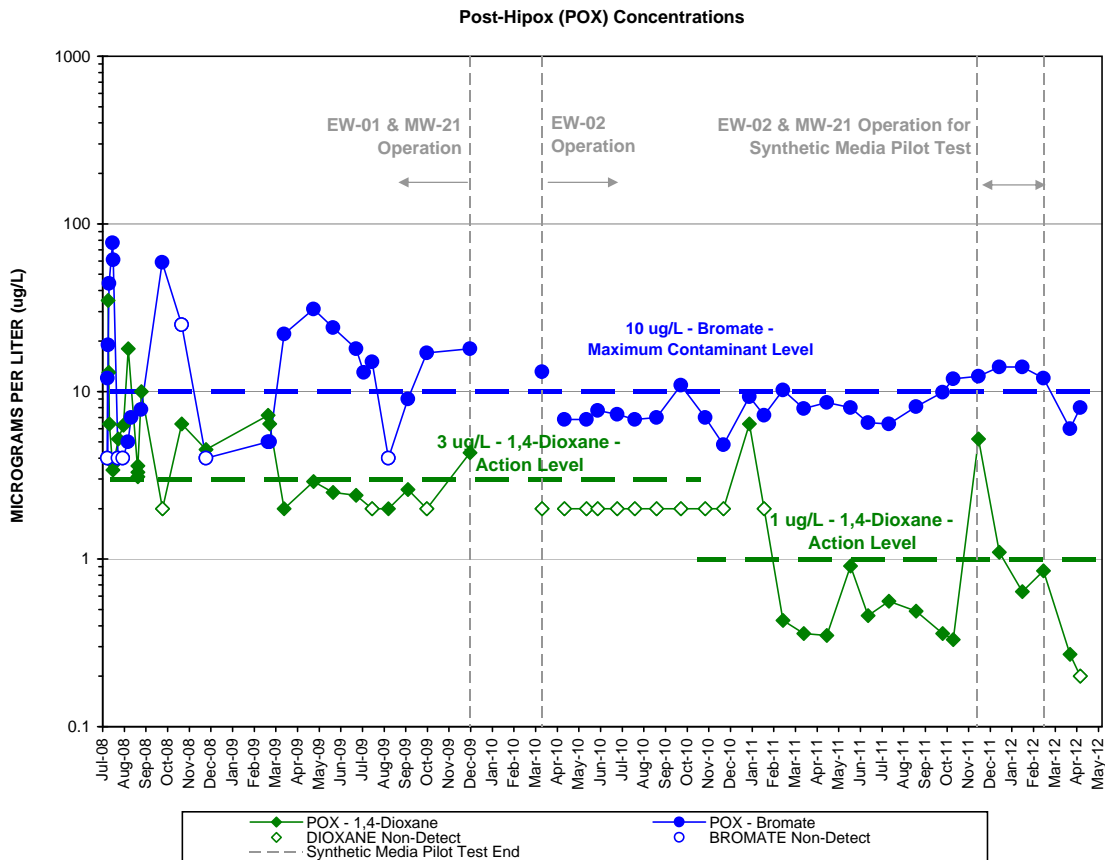
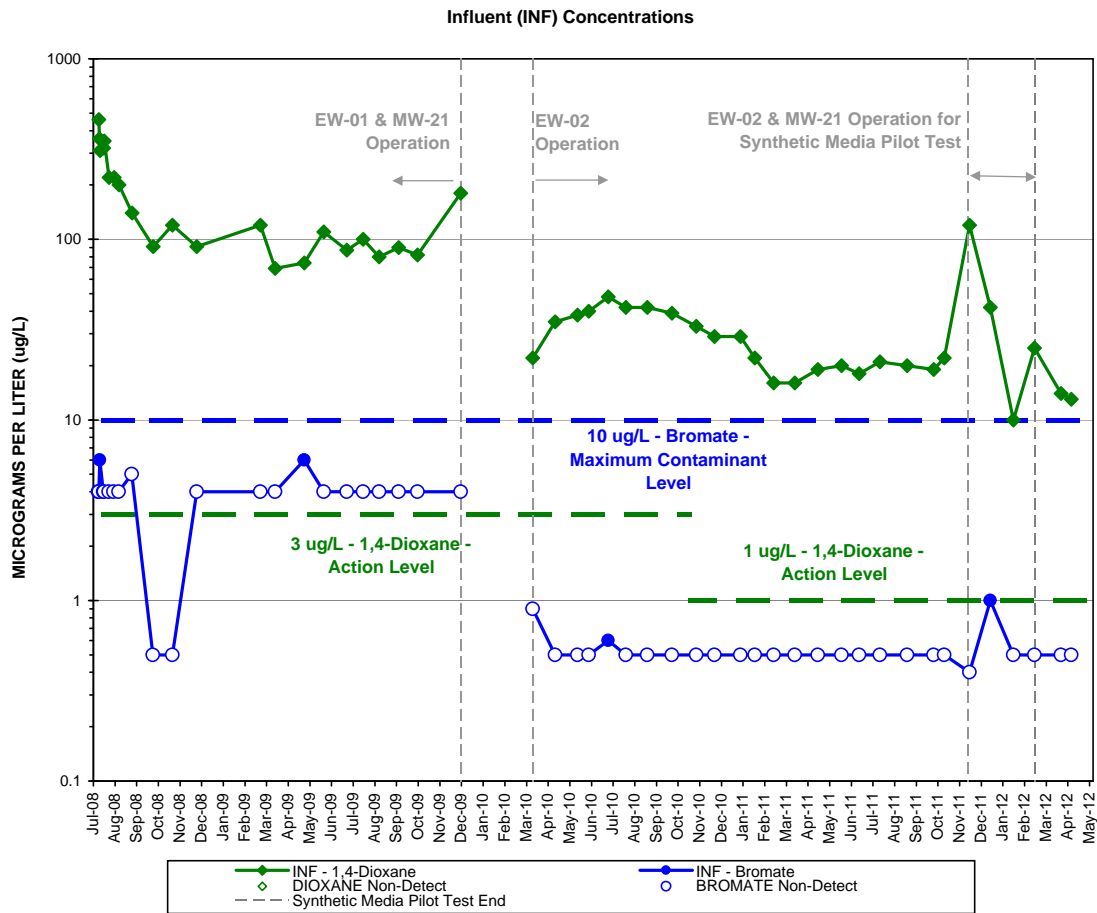


FIGURE 6.
1,4-DIOXANE AND BROMATE IN INFLUENT AND POST-OX. SAMPLES

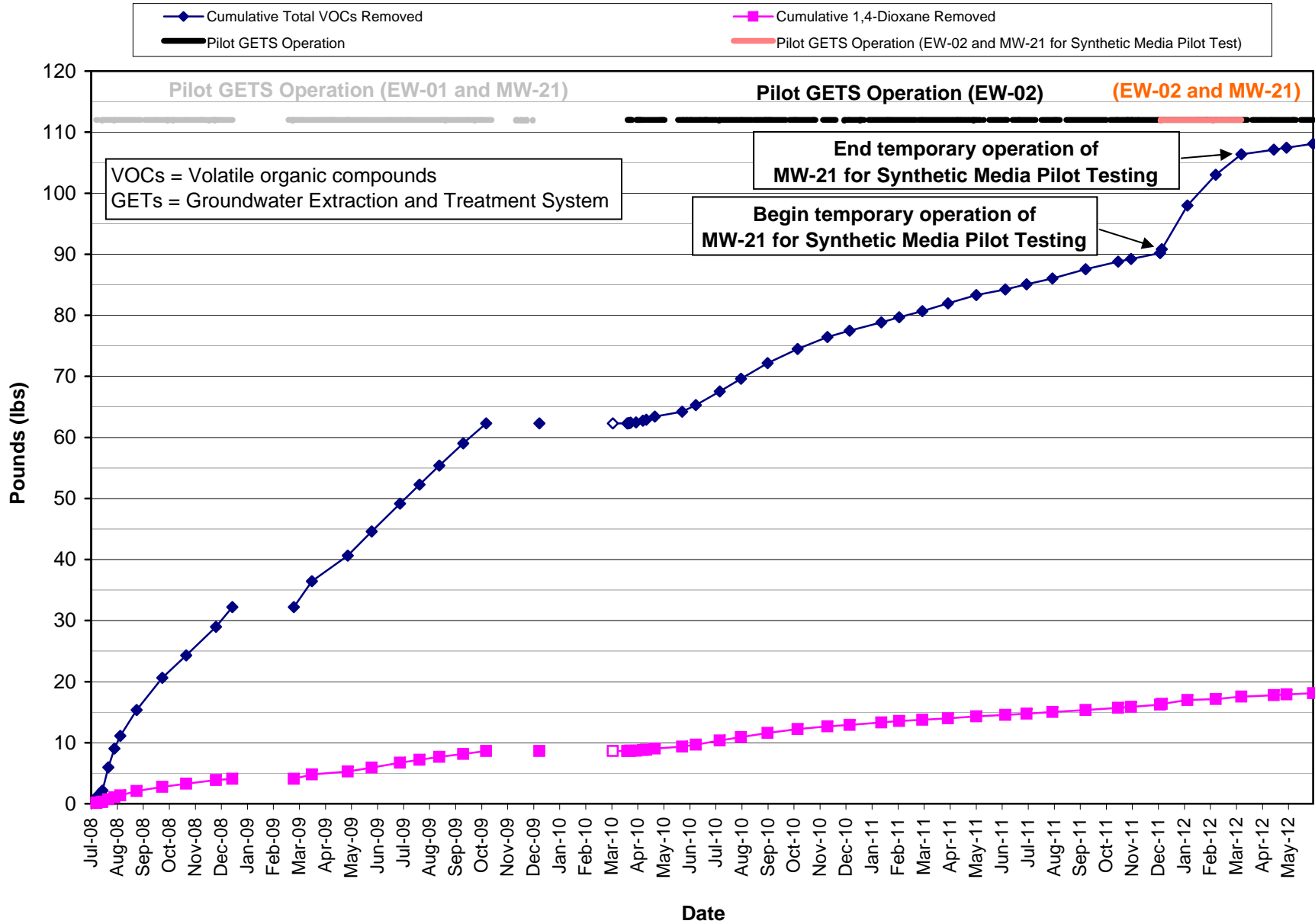


FIGURE 7.
PILOT GROUNDWATER EXTRACTION AND TREATMENT SYSTEM MASS REMOVAL

APPENDIX A
GROUNDWATER SAMPLING FIELD FORMS

GROUNDWATER SAMPLING INFORMATION

DATE: 5/7/12

113.04

TASK: 532.30

WELL ID: EW-01

| | | | | | | | |
|---|---|--|-----------------------------|-----------------------|-------------------------|------------------------------|------------------------|
| Time <u>1256</u> | Static DTW (ft below reference point) <u>113.04</u> | Casing Volume (CV) (gallons) <u>54.0</u> | 3 CV (gallons) <u>162.3</u> | Weather Conditions | | Initials <u>AMB & DM</u> | |
| Casing Total Depth (ft below reference point) <u>195</u> | Purging Device <u>ded. pump</u> | Sampling Device <u>ded sample port</u> | Time <u>1540</u> | Temp. <u>75°</u> | Begin Purge <u>1537</u> | End Purge <u>1632</u> | |
| Water Column (feet) <u>81.96</u> | Pump: Depth (ft brp) <u>NA</u> | Type <u>NA</u> | Voltage <u>NA</u> | HP <u>NA</u> | Skies <u>Clear</u> | Gallons Purged <u>697</u> | CVs Purged <u>12.9</u> |
| Casing Capacity (Diameter <u>4</u> ") (gallons per foot) <u>0.66</u> | Monitor Well Recharge Rate: Slow <u>Fast</u> <u>X</u> | | | Wind (mph) <u>1-4</u> | From <u>S-SW</u> | DTW (ft brp) <u>131.00</u> | Time <u>1639</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|-------------|-----------------|-------------------------|-----------------------|------------------------|-------------|--------------|-------------|-------------|-----------------|-------------------|----------------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| <u>1257</u> | <u>113.04</u> | | | | | | | | | | <u>273702</u> |
| <u>1537</u> | <u>PUMP ON</u> | | | | | | | | | | <u>12.44 GPM</u> |
| <u>1632</u> | <u>131.93</u> | <u>697</u> | <u>12.9</u> | <u>24.03</u> | <u>7.46</u> | <u>1.397</u> | <u>2052</u> | <u>4.77</u> | <u>1.09</u> | | <u>274399 12.171 GPM</u> |
| <u>1639</u> | <u>PUMP OFF</u> | | | | | | | | | | <u>DTW = 131.00 274466</u> |
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|---|--|----------------|--------------------------|---------------------------|
| SAMPLE COLLECTION SAMPLE TIME <u>1632</u> | AIR MONITORING PID/FID ppm: <u>VAULT NA</u> | <u>BKGD NA</u> | <u>BREATHING ZONE NA</u> | <u>DISCHARGE WATER NA</u> |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs <u>3 MB</u> 40 ml VOA | | | | |
| 8270 SIM 1,4 dioxane <u>1 B</u> 1 L Amber | | | | |
| 8270 MOD 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| DUPLICATES / SPLITS / BLANKS? <u>Y</u> <u>(N)</u> | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/11/12 12734@1248 TASK: 532.30 WELL ID: MW08

| | | | |
|--|--|--------------------------------------|--|
| Time <u>1026</u> Static DTW (ft below reference point) <u>127.52</u> | Casing Volume (CV) (gallons) <u>4.71</u> ^{0.2} CV (gallons) <u>18.6</u> | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) <u>163.79</u> | Purging Device <u>ambos pump</u> Sampling Device <u>ded. tubing</u> | Time <u>1230</u> Temp. <u>75°</u> | Begin Purge <u>1255</u> End Purge <u>1316</u> |
| Water Column (feet) <u>36.43</u> 27.64 | Pump: Depth (ft brp) <u>~162</u> Type <u>rediflo</u> Voltage <u>240</u> HP | Skies <u>Clear, sunny</u> | Gallons Purged <u>19</u> CVs Purged <u>3.1</u> |
| Casing Capacity (Diameter <u>2"</u>) (gallons per foot) <u>0.17</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | Wind (mph) <u>D-3</u> From <u>SW</u> | DTW (ft brp) <u>127.44</u> Time <u>1329</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1255 | PUMP ON | | | | | | | | | | 1 gpm |
| 1258 | UTM | 1 | 0.2 | 23.04 | 7.54 | 1.623 | 156.1 | 4.85 | 8.65 | | |
| 1301 | UTM | 4 | 0.6 | 22.54 | 7.38 | 1.600 | 148.5 | 5.02 | 43.1 | | 1 gpm |
| 1304 | UTM | 6.5 | 1.0 | 22.81 | 7.36 | 1.544 | 138.7 | 5.03 | 23.2 | | |
| 1308 | UTM | 12 | 1.9 | 23.16 | 7.35 | 1.476 | 145.9 | 5.27 | 6.42 | | 1 gpm |
| 1312 | UTM | 16 | 2.6 | 23.23 | 7.37 | 1.467 | 134.3 | 5.26 | 3.15 | | 1 gpm |
| 1316 | UTM | 19 | 3.1 | 22.94 | 7.36 | 1.456 | 130.5 | 5.09 | 4.19 | | 1 gpm collect sample |
| | | | | | | | | | | | |
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SAMPLE COLLECTION SAMPLE TIME 1316

| ANALYSIS | QUANTITY | TYPE |
|----------------------|------------|-----------|
| 8260B VOCs | <u>3+3</u> | 40 ml VOA |
| 8270 SIM 1,4 dioxane | <u>(+)</u> | 1 L Amber |
| 8270 MOD 1,4 dioxane | <u>8</u> | 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, previously bailed - on the border. (WL increased 8ft over last quarter)

Previously bailed w/ dedicated bailer

RB-051112@1240 for VOC & 1,4-dioxane

GROUNDWATER SAMPLING INFORMATION

DATE: 5/7/12

TASK: 532.30

WELL ID: MW-21

| | | | |
|--|---|--------------------------------------|--|
| Time <u>1448</u> Static DTW (ft below reference point) <u>111.08</u> | Casing Volume (CV) (gallons) <u>83</u> 3 CV (gallons) <u>251</u> | Weather Conditions | Initials <u>AMB & DM</u> |
| Casing Total Depth (ft below reference point) <u>238.</u> | Purging Device <u>ded pump</u> Sampling Device <u>ded sample port</u> | Time <u>~1500</u> Temp. <u>~78°</u> | Begin Purge <u>1538</u> End Purge <u>1615</u> |
| Water Column (feet) <u>126.9</u> | Pump: Depth (ft brp) <u>NA</u> Type _____ Voltage _____ HP _____ | Skies <u>Clear</u> | Gallons Purged <u>715</u> CVs Purged <u>86</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.66</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | Wind (mph) <u>1-3</u> From <u>SW</u> | DTW (ft brp) <u>114.68</u> 1625 <u>1625</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------|
| | | | | Temp. (°) | pH | EC (S/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1448 | 111.08 | NA | | | | | | | | 553358 pump off | |
| 1538 | Pump on | | | | | | | | | 18.965 gpm | |
| 1615 | 123.48 | 715 | 8.6 | 22.70 | 7.30 | 2.005 | 216.3 | 4.58 | 0.93 | 554073 | |
| 1625 | 114.68 | Pump off | | | | | | | | 554263 | |
| | | | | | | | | | | | |
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| SAMPLE COLLECTION SAMPLE TIME <u>1615</u> | AIR MONITORING PID/FID ppm: VAULT <u>NA</u> BKGD <u>NA</u> BREATHING ZONE <u>NA</u> DISCHARGE WATER <u>NA</u> |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) |
| 8260B VOCs <u>3+3</u> 40 ml VQA | |
| 8270 SIM 1,4 dioxane <u>1</u> 1 L Amber | |
| 8270 MOD 1,4 dioxane <u>1</u> 1 L Amber | |
| DUPLICATES / SPLITS / BLANKS? <u>Y</u> | <u>MW-2100P, 1645</u> |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/9/12

TASK: 532.30

WELL ID: MW-260

| | | | | | |
|---|--|---------------------------------|--------------------|--------------------|---------------------|
| Time 1440 | Static DTW (ft below reference point) 109.93 | Casing Volume (CV) (gallons) 66 | 3 CV (gallons) 198 | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) 499 | Purging Device ded. pump | Sampling Device ded. Sample | Time 1440 | Temp. ~78 | Begin Purge 1448 |
| Water Column (feet) 309 | Pump: Depth (ft brp) ~300 | Type ground | Skies clear, sunny | Gallons Purged 201 | CVs Purged 3.0 |
| Casing Capacity (Diameter 2") (gallons per foot) 0.17 | Monitor Well Recharge Rate: Slow | Fast X | Wind (mph) 1-4 | From S-SW | DTW (ft brp) 110.85 |
| | | | | | Time 1626 |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|-------------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1448 | Pump ON | | | | | | | | | 313 | 2.4 gpm |
| 1451 | 110.73 | 7.2 | 0.1 | 22.12 | 9.33 | 0.471 | -222.1 | 0.22 | 22.1 | 313 | 2.4 gpm |
| 1505 | 110.73 | 77.6 | 0.6 | 22.16 | 7.75 | 0.765 | -151.2 | 0.20 | 8.69 | 313 | 2.4 gpm 40.8 gal purged |
| 1519 | 110.73 | 74.4 | 1.1 | 22.21 | 7.69 | 0.889 | -67.6 | 1.24 | 2.97 | 313 | 2.4 gpm |
| 1533 | 110.73 | 108 | 1.6 | 22.22 | 7.74 | 0.888 | -54.4 | 1.38 | 1.19 | 313 | 2.4 gpm |
| 1547 | 110.73 | 141 | 2.1 | 22.23 | 7.74 | 0.888 | -48.8 | 1.40 | 0.26 | 313 | 2.4 gpm |
| 1601 | 111.30 | 174.6 | 2.6 | 22.21 | 7.74 | 0.894 | -47.2 | 1.74 | 0.23 | 313 | 2.4 gpm |
| 1612 | 111.44 | 201 | 3.0 | 22.22 | 7.74 | 0.895 | -44.9 | 1.45 | 0.31 | 313 | 2.4 gpm |
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|-------------------------------------|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME 1612 | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 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) | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/11/12

TASK: 532.30

WELL ID: MW-28

| | | | | | |
|--|--|--|----------------------------------|--|--|
| Time <u>715</u> Static DTW (ft below reference point) | <u>115.73</u> Screen <u>SV</u> Casing Volume (CV) (gallons) | <u>27</u> <u>SV</u> (gallons) | <u>81</u> | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) | <u>375</u> | Purging Device <u>ded pump</u> | Sampling Device <u>ded. 0-10</u> | Time <u>715</u> Temp. <u>~65°</u> | Begin Purge <u>716</u> End Purge <u>727</u> |
| <u>pump to screen</u> Water Column (feet) | <u>45</u> | Pump: Depth (ft brp) <u>330</u> | Type <u>grinder</u> | Skies <u>Cloudy</u> | Gallons Purged <u>83</u> CVs Purged <u>3.0</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) | <u>0.60</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | | Wind (mph) <u>0-2</u> From <u>S-SW</u> | DTW (ft brp) <u>150.91</u> Time <u>732</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|---------------------------|-------------------|-------------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 716 | PUMP | ON | | | | | | | | | |
| 717 | 122.15 | 7 | 0.3 | 21.48 | 7.60 | 1.089 | 107.1 | 5.28 | 1.92 | | 7.7 gpm |
| 719 | 123.31 | 18 | 0.7 | 21.28 | 7.63 | 1.044 | 156.6 | 5.36 | 0.07 | | 7.6 gpm |
| 721 | 123.48 | 31 | 1.1 | 21.35 | 7.65 | 1.053 | 146.0 | 5.56 | 1.31 | | 7.6 gpm |
| 723 | 123.50 | 50 | 1.8 | 21.40 | 7.63 | 1.071 | 136.2 | 5.74 | 33.9 <u>ms</u> | | 1.23 NTU |
| 725 | 123.53 | 71 | 1.6 | 21.40 | 7.64 | 1.074 | 123.0 | 5.76 | 12.2 | | 7.6 gpm |
| 727 | 123.53 | 83 | 3.0 | 21.40 | 7.64 | 1.073 | 117.4 | 5.85 | 0.60 | | 7.6 gpm, Collect sample |
| | | | | | | | | | | | |
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|--|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME <u>727</u> | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs <u>3</u> 40 ml VQA | | | | |
| 8270 SIM 1.4 dioxane <u>1</u> 1 L Amber | | | | |
| 8270 MOD 1.4 dioxane <u>1</u> 1 L Amber | | | | |
| DUPLICATES / SPLITS / BLANKS? Y <u>(N)</u> | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/11/12

TASK: 532.30

WELL ID: MW-24

| | | | |
|--|--|--|--|
| Time <u>719</u> Static DTW (ft below reference point) <u>118.05</u> | Casing Volume (CV) (gallons) <u>30</u> 3 CV (gallons) <u>90</u> | Weather Conditions | Initials <u>AMB & DM</u> |
| Casing Total Depth (ft below reference point) <u>246</u> | Purging Device <u>Dev. pump</u> Sampling Device <u>5100. dediprest</u> | Time <u>750</u> Temp. <u>76°</u> | Begin Purge <u>754</u> End Purge <u>816</u> |
| Water Column (feet) <u>50</u> | Pump: Depth (ft brp) <u>190</u> Type <u>ground</u> Voltage <u>240</u> HP | Skies <u>cloudy</u> | Gallons Purged <u>94</u> CVs Purged <u>3.1</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.60</u> | Monitor Well Recharge Rate: Slow Fast <u>X</u> | Wind (mph) <u>0-3</u> From <u>S-SW</u> | DTW (ft brp) <u>118.31</u> Time <u>824</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 754 | PUMP | ON | | | | | | | | | 4.5 gpm |
| 756 | 125.34 | 5 | 0.2 | 20.94 | 7.43 | 1.375 | 25.3 | 5.35 | 4.16 | | 4.5 gpm |
| 758 | 125.88 | 15 | 0.5 | 21.26 | 7.47 | 1.348 | 32.4 | 5.91 | 2.94 | | 4.5 gpm |
| 800 | 125.91 | 25 | 0.8 | 21.35 | 7.46 | 1.348 | 53.9 | 6.33 | 2.47 | | 4.4 gpm |
| 802 | 125.96 | 33 | 1.1 | 21.40 | 7.46 | 1.365 | 69.5 | 6.63 | 2.96 | | 4.4 gpm |
| 804 | 125.96 | 43 | 1.4 | 21.42 | 7.43 | 1.385 | 78.7 | 6.96 | 3.02 | | 4.4 gpm |
| 807 | 125.94 | 56 | 1.9 | 21.43 | 7.42 | 1.391 | 85.1 | 7.47 | 3.51 | | 4.4 gpm |
| 811 | 125.95 | 75 | 2.5 | 21.42 | 7.39 | 1.398 | 80.0 | 7.39 | 2.12 | | 4.4 gpm |
| 816 | 126.08 | 94 | 3.1 | 21.41 | 7.39 | 1.395 | 82.6 | 8.19 | 1.46 | | |

SAMPLE COLLECTION SAMPLE TIME 816

| ANALYSIS | QUANTITY | TYPE |
|----------------------|------------------|-----------|
| 8260B VOCs | <u>3+3+3+3</u> | 40 ml VOA |
| 8270 SIM 1,4 dioxane | <u>2</u> | 1 L Amber |
| 8270 MOD 1,4 dioxane | <u>(+)(+)(+)</u> | 1 L Amber |

DUPLICATES / SPLITS / BLANKS? (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-2400 at 836 sample time Spt (Cal science) Spt (Enova) @ 816

GROUNDWATER SAMPLING INFORMATION

DATE: 5/10/12

TASK: 532.30

WELL ID: MW-30A

| | | | | | |
|--|---|---|--|--|--|
| Time <u>1710</u> Static DTW (ft below reference point) | <u>105.5</u> SCREEN SV Casing Volume (CV) (gallons) | <u>17.2</u> SV Casing Volume (CV) (gallons) | <u>51.5</u> | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) | <u>564'</u> | Purging Device <u>Dep. pump</u> | Sampling Device <u>0-10 pipe stand</u> | Time <u>1715</u> Temp. <u>75°</u> | Begin Purge <u>1721</u> End Purge <u>1732</u> |
| Water Column (feet) | <u>44</u> | Pump: Depth (ft brp) <u>520'</u> Type <u>Grundfos</u> | Voltage <u>240</u> HP | Skies <u>Clear, sunny</u> | Gallons Purged <u>52</u> CVs Purged <u>3.0</u> |
| Casing Capacity (Diameter <u>3"</u>) (gallons per foot) | <u>0.39</u> | Monitor Well Recharge Rate: Slow <u>0</u> Fast <u>X</u> | | Wind (mph) <u>1-2</u> From <u>S-SW</u> | DTW (ft brp) <u>105.75</u> Time <u>1733</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|-----------------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1721 | PUMP ON | | | | | | | | | | 4.8 gpm |
| 1722 | 107.25 | 5 | 0.3 | 22.19 | 7.93 | 0.736 | 101.0 | 3.06 | 2.51 | | 4.8 gpm |
| 1724 | 107.25 | 10 | 0.6 | 20.93 | 8.84 | 0.765 | -158.8 | 1.02 | 1.30 | | 4.8 gpm |
| 1726 | 107.35 | 20 | 1.6 | 21.06 | 7.48 | 0.742 | -82.6 | 0.57 | 4.23 | | 5 gpm |
| 1728 | 107.29 | 31 | 1.6 | 21.25 | 7.15 | 0.737 | -37.4 | 0.35 | 1.56 | | 5 gpm |
| 1730 | 107.31 | 41 | 2.4 | 21.28 | 7.18 | 0.735 | -24.0 | 0.39 | 2.15 | | 5 gpm |
| 1732 | 107.32 | 52 | 3.0 | 21.28 | 7.22 | 0.734 | -16.2 | 0.40 | 1.18 | | Collect sample |
| | | | | | | | | | | | |
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|--|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME <u>1732</u> | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs <u>3</u> 40 ml VQA | | | | |
| 8270 SIM 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| 8270 MOD 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| DUPLICATES / SPLITS / BLANKS? Y <u>(N)</u> | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/16/12

TASK: 532.30

WELL ID: MW-30B

| | | | | | |
|--|--------------|--|--|--|--|
| Time <u>1742</u> Static DTW (ft below reference point) | <u>103.7</u> | <u>Screen SV</u> Casing Volume (CV) (gallons) <u>37</u> | <u>3 SV</u> (gallons) <u>1123</u> | Weather Conditions | Initials <u>AMB & DM</u> |
| Casing Total Depth (ft below reference point) | <u>616</u> | Purging Device <u>ded pump</u> | Sampling Device <u>10-100 pipe stand</u> | Time <u>1750</u> Temp. <u>75°</u> | Begin Purge <u>1742</u> End Purge <u>1809</u> |
| <u>5000 to pump</u> Water Column (feet) | <u>96</u> | Pump: Depth (ft brp) <u>520</u> Type <u>Grundfos</u> Voltage <u>240</u> HP | | Skies <u>clear, sunny</u> | Gallons Purged <u>114</u> CVs Purged <u>3.5/1009</u> |
| Casing Capacity (Diameter <u>3'</u>) (gallons per foot) | <u>0.39</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | | Wind (mph) <u>1-3</u> From <u>S-SW</u> | DTW (ft brp) <u>112.22</u> Time <u>1814</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|-------------|----------------|-------------------------|-----------------------|------------------------|-------------|--------------|---------------|-------------|-----------------|-------------------|----------------|
| | | | | Temp. (C) | pH | EC (mS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| <u>1742</u> | <u>Pump ON</u> | | | | | | | | | | |
| <u>1743</u> | <u>112.86</u> | <u>5</u> | <u>0.1</u> | <u>21.37</u> | <u>7.55</u> | <u>1.128</u> | <u>-135.9</u> | <u>2.26</u> | <u>36.7</u> | | <u>5.2 gpm</u> |
| <u>1746</u> | <u>119.30</u> | <u>13</u> | <u>0.4</u> | <u>20.89</u> | <u>7.59</u> | <u>1.018</u> | <u>-157.0</u> | <u>0.73</u> | <u>12.5</u> | | <u>4.9 gpm</u> |
| <u>1749</u> | <u>122.17</u> | <u>27</u> | <u>0.7</u> | <u>21.10</u> | <u>7.67</u> | <u>0.990</u> | <u>-185.2</u> | <u>0.30</u> | <u>8.30</u> | | <u>5 gpm</u> |
| <u>1753</u> | <u>124.19</u> | <u>52</u> | <u>1.4</u> | <u>21.26</u> | <u>7.51</u> | <u>1.020</u> | <u>-158.2</u> | <u>0.10</u> | <u>7.98</u> | | <u>5 gpm</u> |
| <u>1757</u> | <u>124.93</u> | <u>67</u> | <u>1.8</u> | <u>21.29</u> | <u>7.53</u> | <u>1.043</u> | <u>-152.4</u> | <u>0.08</u> | <u>2.30</u> | | <u>5 gpm</u> |
| <u>1801</u> | <u>126.0</u> | <u>93</u> | <u>2.5</u> | <u>21.32</u> | <u>7.53</u> | <u>1.042</u> | <u>-147.2</u> | <u>0.08</u> | <u>5.33</u> | | <u>4.9 gpm</u> |
| <u>1805</u> | <u>126.38</u> | <u>114</u> | <u>3.0</u> | <u>21.34</u> | <u>7.53</u> | <u>1.024</u> | <u>-142.9</u> | <u>0.09</u> | <u>5.81</u> | | <u>4.9 gpm</u> |
| <u>1809</u> | <u>127.17</u> | <u>130</u> | <u>3.5</u> | <u>21.36</u> | <u>7.51</u> | <u>1.014</u> | <u>-137.1</u> | <u>0.10</u> | <u>1.27</u> | | <u>4.9 gpm</u> |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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|--|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME <u>1809</u> | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs <u>3</u> 40 ml VOA | | | | |
| 8270 SIM 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| 8270 MOD 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| DUPLICATES / SPLITS / BLANKS? Y <u>(N)</u> | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 844 AMB 5/11/12

TASK: 532.30

WELL ID: MW-31

| | | | | |
|--|--|--|--------------------------------------|---|
| Time <u>848</u> Static DTW (ft below reference point) <u>96.95</u> | Casing Volume (SV) (gallons) <u>79.4</u> | 3 SV (gallons) <u>238</u> | Weather Conditions | Initials <u>AMB & DM</u> |
| Casing Total Depth (ft below reference point) <u>996</u> | Purging Device <u>Dea. Pump</u> | Sampling Device <u>ded. id. 100 pipe stand</u> | Temp <u>75°F</u> | Begin Purge <u>849</u> End Purge <u>910</u> |
| <u>PUMP SCREEN</u> Water Column (feet) <u>54</u> | Pump: Depth (ft brp) <u>942</u> Type <u>ground</u> Voltage <u>240</u> HP | | Skies <u>Sunny</u> | Gallons Purged <u>240</u> CVs Purged <u>3.0</u> |
| Casing Capacity (Diameter <u>6</u> ") (gallons per foot) <u>1.5</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | | Wind (mph) <u>0-5</u> From <u>SW</u> | DTW (ft brp) <u>97.10</u> Time <u>917</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|---------------|
| | | | | Temp. (C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 849 | PUMP | ON | | | | | | | | | Temp 11.5 gpm |
| 850 | 98.77 | 15 | 0.2 | 20.77 | 7.97 | 0.793 | 111.6 | 0.51 | 4.43 | 4.43 mb | |
| 853 | 98.88 | 50 | 0.6 | 20.72 | 8.03 | 0.789 | 94.6 | 0.25 | 185 | | 11.5 gpm |
| 856 | 98.91 | 92 | 1.1 | 21.03 | 8.79 | 1.220 | -272 | 0.52 | 49.3 | | 9.8 gpm |
| 859 | 98.88 | 117 | 1.5 | 21.11 | 7.94 | 1.040 | 20.3 | 1.0 | 22.0 | | 10 gpm |
| 903 | 98.90 | 156 | 2.0 | 21.15 | 7.91 | 0.963 | 34.8 | 1.32 | 13.4 | | 10 gpm |
| 906 | 98.93 | 186 | 2.4 | 21.16 | 7.99 | 0.928 | 29.1 | 1.44 | 12.4 | | 10 gpm |
| 910 | 98.94 | 240 | 3.0 | 21.16 | 7.92 | 0.898 | 32.2 | 1.56 | 4.4 | | |

SAMPLE COLLECTION SAMPLE TIME 910

ANALYSIS QUANTITY TYPE

8260B VOCs 5 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.)

GROUNDWATER SAMPLING INFORMATION

DATE: 5/8/12

TASK: 532.30

WELL ID: MW-32A

| | | | |
|--|---|---------------------------------------|---|
| Time <u>9:00</u> Static DTW (ft below reference point) | <u>662.47</u> Screen SV Casing Volume (CV) (gallons) <u>207</u> SV (gallons) <u>621</u> | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) | Purging Device <u>Dead pump</u> Sampling Device <u>dead ND pipe stand</u> | Time <u>~9:00</u> Temp. <u>~68°</u> | Begin Purge <u>9:03</u> End Purge <u>9:56</u> |
| Water Column (feet) | Pump: Depth (ft brp) <u>560'</u> Type <u>grndfbs</u> Voltage <u>240</u> HP | Skies <u>Partly Cloudy</u> | Gallons Purged <u>702</u> CVs Purged <u>>3</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) | Monitor Well Recharge Rate: Slow Fast <u>X</u> | Wind (mph) <u>W 0-2</u> From <u>W</u> | DTW (ft brp) <u>66.54</u> Time <u>10:15</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|-------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 9:03 | BEGIN PUMPING | | | | | | | | | | ~12 gpm |
| 9:05 | 67.90 | 24 | 0.1 | 20.51 | 7.58 | 0.919 | -31.9 | 1.71 | 2.51 | | 2.27 NTU |
| 9:14 | 67.96 | 132 | 0.6 | 20.69 | 7.55 | 0.918 | 27.9 | 1.36 | 15.5 | | ~12 gpm |
| 9:23 | 67.96 | 240 | 1.2 | 20.86 | 7.56 | 0.922 | 5.5 | 1.72 | 10.84 | | |
| 9:32 | 67.97 | 348 | 1.7 | 20.88 | 7.57 | 0.921 | 21.1 | 1.91 | 2.64 | | 12 gpm |
| 9:41 | 67.97 | 456 | 2.2 | 20.88 | 7.55 | 0.921 | -64.4 | 2.21 | 2.50 | | |
| 9:50 | 67.97 | 564 | 2.7 | 20.88 | 7.53 | 0.919 | 6.3 | 2.42 | 2.50 | | |
| 9:56 | 67.97 | 630 | 3.0 | 20.88 | 7.53 | 0.920 | 10.1 | 2.17 | 5.03 | | Collect sample |
| 10:02 | NM | 702 | PUMP OFF | | | | | | | | |

| | |
|--|--|
| SAMPLE COLLECTION TIME <u>9:56</u> | AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) |
| 8260B VOCs <u>3</u> 40 ml VOA | |
| 8270 SIM 1.4 dioxane <u>1</u> 1 L Amber | |
| 8270 MOD 1.4 dioxane <u>1</u> 1 L Amber | |
| DUPLICATES / SPLITS / BLANKS? Y <u>(N)</u> | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/8/12

TASK: 532.30

WELL ID: MW-32B

| | | | |
|--|---|--|---|
| Time <u>1312</u> Static DTW (ft below reference point) <u>66.70</u> | Screen <u>SV</u> Casing Volume (CV) (gallons) <u>263.4</u> 3 CV (gallons) <u>790.2</u> | Weather Conditions Time <u>1310</u> Temp. <u>80</u> | Initials AMB & DM |
| Casing Total Depth (ft below reference point) <u>999</u> | Purging Device <u>Del. pump</u> Sampling Device <u>ded 100 ft pipe stand</u> | Skies <u>Clear, sunny</u> | Begin Purge <u>1313</u> End Purge <u>1429</u> |
| Screen - Pump Water Column (feet) <u>439</u> | Pump: Depth (ft brp) <u>560</u> Type <u>Grundfos</u> Voltage <u>320V</u> | Wind (mph) <u>1-4</u> From <u>S-SW</u> | Gallons Purged <u>803</u> CVs Purged <u>3.0</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.60</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | DTW (ft brp) <u>67.82</u> | Time <u>1438</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|----------------|-------------|-------------|-----------------|--|----------|
| | | | | Temp. (C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1313 | BEGIN | purging | | | | | | | | 11.6 gpm | |
| 1315 | 85.2 | 23.2 | 0.1 | 20.68 | 7.87 | 0.934 0.470 | -173 | 2.32 | 4.53 | EC not stabilizing, odor in water sulfur | |
| 1327 | 87.0 | 155.2 | 0.6 | 20.70 | 7.91 | 0.876 | -192.0 | 1.73 | 0.31 | 11 gpm @ 1321 | |
| 1339 | 87.70 | 287 | 1.1 | 20.61 | 7.90 | 0.750 | 726.0 | 0.38 | 10.75 | ~11 gpm | |
| 1352 | 88.0 | 422 | 1.6 | 21.11 | 7.96 | 0.831 | -129.0 | 0.22 | 1.74 | 10.4 gpm | |
| 1404 | 88.21 | 546 | 2.1 | 21.13 | 7.96 | 0.858 | -146.0 | 0.02 | 15.2 | 5.54 NTU ~10.4 gpm | |
| 1416 | 88.34 | 669 | 2.5 | 21.14 | 7.94 | 0.867 | -136.6 | 0.16 | 7.41 | 10.3 gpm | |
| 1429 | 88.44 | 803 | 3.0 | 21.12 | 7.95 | 0.888 | -135.2 | 0.25 | 4.32 | 10.3 gpm | |

| | | | | |
|--|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME <u>1429</u> | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs <u>2</u> 40 ml VOA | | | | |
| 8270 SIM 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| 8270 MOD 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| DUPLICATES / SPLITS / BLANKS? Y <u>(N)</u> | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: MW-320 5/8/12

TASK: 532.30

WELL ID: MW-320

| | | | | | | | | |
|---|--|--|----------------------------------|--------|--------------------|---------------------|----------------|-------------------|
| Time 1018 | Static DTW (ft below reference point) 61.08 | Screen SV | Casing Volume (CV) (gallons) 318 | SV | 954 | Weather Conditions | | Initials AMB & DM |
| Casing Total Depth (ft below reference point) 1090 | Purging Device dead pump | Sampling Device dead, ND | Time 1030 | | Temp. ~ 76 | Begin Purge 1028 | End Purge 1247 | |
| Water Column (feet) 530 | Pump: Depth (ft brp) 530 | Type Ground | Voltage 240 | HP | Skies clear, sunny | Gallons Purged 1046 | CVs Purged 3.3 | |
| Casing Capacity (Diameter 4") (gallons per foot) 0.60 | Monitor Well Recharge Rate: Slow <input checked="" type="checkbox"/> AMB | Fast <input checked="" type="checkbox"/> | Wind (mph) 0-2 | From W | DTW (ft brp) 177 | Time 1253 | | |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|-------------------------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1028 | BEGIN PUMPING | | | | | | | | | | |
| 1030 | 112.80 | 22 | 0.1 | 20.53 | 8.22 | 0.552 | 288.2 | 0.10 | 36.4 | | ~11 gpm @ 1030 |
| 1038 | 159.80 | 110 | 0.3 | 20.66 | 8.05 | 0.552 | 229.6 | 0.12 | 26.3 | | ~10 gpm |
| 1050 | 199.55 | 215 | 0.7 | 20.77 | 8.02 | 0.551 | 283.6 | 0.05 | 6.17 | | ~7.6 gpm sulfur odor in purge water |
| 1105 | 210 | 329 | 1.0 | 21.02 | 8.13 | 0.550 | 240.7 | 0.11 | 2.71 | | ~7.6 gpm |
| 1123 | 214.6 | 453 | 1.4 | 21.28 | 8.22 | 0.549 | 224.8 | 0.12 | 5.38 | | ~7.0 gpm |
| 1138 | 217.53 | 558 | 1.7 | 21.35 | 8.27 | 0.549 | 215.8 | 0.04 | 5.26 | | ~7.0 gpm |
| 1156 | 219.63 | 684 | 2.1 | 21.39 | 8.26 | 0.549 | 203 | 0.04 | 4.98 | | ~7.0 gpm |
| 1212 | 220.69 | 796 | 2.5 | 21.40 | 8.22 | 0.549 | 143 | 0.37 | 3.12 | | ~2 gpm DO equilibrating |
| 1236 | 221.95 | 964 | 3.0 | 21.41 | 8.27 | 0.549 | 176.4 | 0.03 | 4.00 | | ~7 gpm |
| 1247 | 222.45 | 1041 | 3.3 | 21.40 | 8.28 | 0.549 | 176.4 | 0.03 | 1.70 | | |

| | | | | |
|-------------------------------------|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME 1247 | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs 3 40 ml VOA | ducr out @ 1020, Purged over 3 casings to account for losses from drawdown; ducr in at 1257 = 129.05 | | | |
| 8270 SIM 1.4 dioxane 1 1 L Amber | | | | |
| 8270 MOD 1.4 dioxane 1 1 L Amber | | | | |
| DUPLICATES / SPLITS / BLANKS? Y (N) | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/9/12

TASK: 532.30

WELL ID: MW-33

| | | | |
|--|--|--|---|
| Time <u>1553</u> Static DTW (ft below reference point) <u>59.02</u> | Screen <u>SV</u> <u>290</u> <u>SV</u> <u>873</u> | Weather Conditions | Initials <u>AMB & DM</u> |
| Casing Total Depth (ft below reference point) <u>1020</u> | Gasing Volume (CV) (gallons) <u>290</u> 3 CV (gallons) <u>873</u> | Time <u>1545</u> Temp. <u>~80°</u> | Begin Purge <u>1606</u> End Purge <u>1711</u> |
| Water Column (feet) <u>483.4</u> | Purging Device <u>Di pump</u> Sampling Device <u>0-10 pipette</u> | Skies <u>Clear, Sunny</u> | Gallons Purged <u>876</u> CVs Purged <u>3.0</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.60</u> | Pump: Depth (ft brp) <u>535</u> Type <u>Grundfos</u> Voltage <u>240</u> HP | Wind (mph) <u>1-2</u> From <u>S-SW</u> | DTW (ft brp) <u>58.96</u> Time <u>581714</u> |
| | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | | |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1606 | BEGIN PUMPING | | | | | | | | | 14 gpm | |
| 1607 | 60.37 | 14 | 0.05 | 19.55 | 7.84 | 0.718 | 65.9 | 0.21 | 1.03 | | |
| 1617 | 60.4 | 154 | 0.5 | 20.40 | 7.61 | 0.726 | -150.1 | 0.06 | 3.86 | 14 gpm | |
| 1627 | 60.39 | 294 | 1.0 | 20.63 | 7.10 | 0.730 | -122.6 | 0.06 | 4.95 | 14 gpm | |
| 1637 | 60.40 | 434 | 1.5 | 20.71 | 7.41 | 0.724 | -112.1 | 0.68 | 0.88 | 13 gpm | |
| 1647 | 60.37 | 564 | 2.0 | 20.73 | 7.57 | 0.727 | -123.8 | 0.68 | 1.60 | 13 gpm | |
| 1657 | 60.33 | 694 | 2.5 | 20.74 | 7.53 | 0.727 | -114.9 | 0.73 | 4.87 | 13 gpm | |
| 1711 | 60.38 | 876 | 3.0 | 20.77 | 7.41 | 0.728 | -94.3 | 2.45 | 1.38 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| | | | | |
|---|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME <u>1711</u> | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs <u>3</u> 40 ml VOA | | | | |
| 8270 SIM 1.4 dioxane <u>1</u> 1 L Amber | | | | |
| 8270 MOD 1.4 dioxane <u>1</u> 1 L Amber | | | | |
| DUPPLICATES / SPLITS / BLANKS? <u>Y</u> | | | | |
| If yes, complete appropriate forms. | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/10/12

TASK: 532.30

WELL ID: MW-34A

| | | | | |
|--|---|--|---------------------------------------|---|
| Time <u>9:59</u> Static DTW (ft below reference point) <u>129.09</u> | Screen <u>SV</u> Casing Volume (CV) (gallons) <u>40</u> | 3 CV (gallons) <u>144</u> | Weather Conditions | Initials AMB & DM <u>GDP</u> |
| Casing Total Depth (ft below reference point) <u>280</u> | Purging Device <u>rod pump</u> | Sampling Device <u>ND pipe stand</u> | Type <u>9:59</u> Temp. _____ | Begin Purge <u>10:10</u> End Purge <u>10:20</u> |
| Water Column (feet) <u>80</u> | Pump: Depth (ft brp) <u>200'</u> Type <u>ground</u> Voltage <u>240</u> HP _____ | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | Skies <u>Part cloud</u> | Gallons Purged <u>150</u> CVs Purged <u>3.0</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.60</u> | | | Wind (mph) <u>0-2</u> From <u>SSW</u> | DTW (ft brp) <u>127.16</u> Time <u>10:25</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1009 | Pump ON | | | | | | | | | 14.1 gpm | |
| 1010 | 129.09 | 21.4 | 8.4 | 21.19 | 7.42 | 1.241 | -135.4 | 4.74 | 484 | | |
| 1012 | 129.11 | 47 | 1.0 | 21.21 | 7.43 | 1.241 | -130.5 | 5.09 | 114 | 14.0 gpm | |
| 1014 | 129.5 | 60 | 1.25 | 21.23 | 7.43 | 1.241 | -102.3 | 5.34 | 139 | 14.1 gpm 129.15 | |
| 1016 | 129.12 | 88 | 1.8 | 21.24 | 7.43 | 1.242 | -75.6 | 5.40 | 56.1 | 14.1 | |
| 1018 | 129.13 | 122 | 2.5 | 21.25 | 7.42 | 1.241 | -62.3 | 5.56 | 191 | 14.1 gpm | |
| 1020 | 129.14 | 150 | 3.0 | 21.26 | 7.41 | 1.242 | -34.1 | 5.69 | 254 | 14.1 gpm | |
| 1022 | PUMP OFF | | | | | | | | | | |

| | | | | |
|--|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME <u>1020</u> | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs <u>2</u> 40 ml VOA | | | | |
| 8270 SIM 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| 8270 MOD 1,4 dioxane <u>1</u> 1 L Amber | | | | |
| DUPLICATES / SPLITS / BLANKS? Y <u>(N)</u> | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/10/12

TASK: 532.30

WELL ID: MW-34B

| | | | |
|--|---|---|---|
| Time <u>1040</u> Static DTW (ft below reference point) <u>129.51</u> | Casing Volume (CV) (gallons) <u>46</u> 3 CV (gallons) <u>137</u> | Weather Conditions | Initials AMB & DM <u>GDP</u> |
| Casing Total Depth (ft below reference point) <u>536</u> | Purging Device <u>deal pump</u> Sampling Device <u>>100 pipe stand</u> | Time <u>1040</u> Temp. <u>~</u> | Begin Purge <u>1043</u> End Purge <u> </u> |
| Water Column (feet) <u>76</u> | Pump: Depth (ft brp) <u>480</u> Type <u>ground</u> Voltage <u>240</u> HP | Skies <u>clear, sunny</u> | Gallons Purged <u>138</u> CVs Purged <u>3.0</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.60</u> | Monitor Well Recharge Rate: Slow <u> </u> Fast <u>X</u> | Wind (mph) <u>0-3</u> Front <u>S-SW</u> | DTW (ft brp) <u>130.05</u> Time <u>1059</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------|
| | | | | Temp. (°C) | pH | EC (MS/cm) | Q.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1043 | PUMP | ON | | | | | | | | | |
| 1044 | 131.28 | 7.7 | 0.2 | 20.98 | 7.65 | 1.101 | 37.9 | 2.50 | 27.3 | | 13.4 gpm |
| 1046 | 131.30 | 22.1 | 0.5 | 21.40 | 7.68 | 0.969 | -120.2 | 2.41 | 704 | | 13.4 gpm |
| 1048 | 131.37 | 49 | 1.1 | 21.60 | 7.67 | 0.973 | -66.0 | 2.89 | 139 | | 13.5 gpm |
| 1050 | 131.47 | 75 | 1.6 | 21.63 | 7.66 | 0.972 | -57.3 | 2.92 | 92.5 | | 13.5 gpm |
| 1052 | 131.50 | 107 | 2.3 | 21.64 | 7.64 | 0.974 | -51.4 | 2.92 | 37.3 | | 13.5 gpm |
| 1055 | 131.52 | 138 | 3.0 | 21.65 | 7.62 | 0.973 | -43.6 | 2.91 | 36.6 | | 13.5 gpm |
| 1059 | PUMP | OFF | | | | | | | | | |

SAMPLE COLLECTION SAMPLE TIME 1055

| ANALYSIS | QUANTITY | TYPE |
|----------------------|------------|-----------------|
| 8260B VOCs | <u>9.0</u> | 40 ml VOA w/HCL |
| 8270 SIM 1,4 dioxane | <u>1</u> | 1 L Amber |
| 8270 MOD 1,4 dioxane | <u>3</u> | 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.)

splits @ 1055 - 6 VOA's w/HCL & 2 1 L Ambers

GROUNDWATER SAMPLING INFORMATION

DATE: 5/10/12

TASK: 532.30

WELL ID: MW-240

| | | | |
|--|--|--|---|
| Time <u>857</u> Static DTW (ft below reference point) <u>131.84</u> | Casing Volume (CV) (gallons) <u>57.7</u> 3 CV (gallons) <u>173</u> | Weather Conditions | Initials <u>AMB & DM</u> <u>GD</u> |
| Casing Total Depth (ft below reference point) <u>576</u> | Purging Device <u>dead pump</u> Sampling Device <u>ded WD pump</u> | Time <u>950</u> Temp. <u>-75°</u> | Begin Purge <u>928</u> End Purge <u>942</u> |
| Water Column (feet) <u>96</u> | Pump: Depth (ft brp) <u>400'</u> Type <u>granite</u> Voltage <u>240 HP</u> | Skies <u>Clear</u> | Gallons Purged <u>181</u> CVs Purged <u>3.1</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.60</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | Wind (mph) <u>0-3</u> From <u>W-SW</u> | DTW (ft brp) <u>140.05</u> Time <u>945</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | FIELD PARAMETERS | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------|------|------------|-------------|-------------|-----------------|-------------------|-------------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | Q.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 928 | PUMP ON | | | | | | | | | | |
| 929 | 146.45 | 18 | 0.3 | 20.99 | 7.82 | 0.757 | -199.0 | 1.05 | 3.24 | | 12.9 gpm |
| 931 | 149.45 | 33 | 0.6 | 21.50 | 8.21 | 0.576 | -261.5 | 0.25 | 2.38 | | 12.7 gpm |
| 933 | 150.92 | 61 | 1.0 | 21.67 | 8.22 | 0.645 | -255.7 | NM | 4.23 | | 12.6 gpm sulfur odor |
| 935 | 150.22 | 89 | 1.5 | 21.73 | 7.81 | 0.754 | -213.8 | 1.10 | 5.47 | | 12.5 gpm |
| 937 | 151.58 | 112 | 2.0 | 21.74 | 7.8 | 0.755 | -207.5 | 0.08 | 0.91 | | 12.5 gpm |
| 939 | 151.99 | 134 | 2.3 | 21.75 | 7.79 | 0.756 | -201.9 | 0.05 | 1.22 | | 12.4 gpm |
| 942 | 152.41 | 181 | 3.1 | 21.75 | 7.78 | 0.757 | -198.0 | 0.04 | 0.51 | | 12.4 gpm collect sample |
| 944 | Pump off | | | | | | | | | | |

SAMPLE COLLECTION SAMPLE TIME 9:42

| ANALYSIS | QUANTITY | TYPE |
|----------------------|----------|-----------|
| 8260B VOCs | <u>3</u> | 40 ml VOA |
| 8270 SIM 1,4 dioxane | <u>1</u> | 1 L Amber |
| 8270 MOD 1,4 dioxane | <u>0</u> | 1 L Amber |

DUPLICATES / SPLITS / BLANKS? 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 at 926, ducer in at 955

Purge over 3 casing volumes (drawdown)

GROUNDWATER SAMPLING INFORMATION

DATE: 5/9/12

TASK: 532.30

WELL ID: MW-35A

| | | | | | | |
|--|-------|----------------------------------|---------------------------------|--------------------|--------------------|-----------------------------------|
| Time 906 Static DTW (ft below reference point) | 60.34 | Screen SV | Casing Volume (CV) (gallons) 42 | 3 SV (gallons) 126 | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) | 470 | Purging Device | ded. pump | Sampling Device | ded. ND pipe | Begin Purge 936 End Purge 957 |
| Pump Screen Water Column (feet) | 70 | Pump: Depth (ft brp) | 400 | Type | gpm/hrs | Gallons Purged 210 CVs Purged 5.0 |
| Casing Capacity (Diameter 4") (gallons per foot) | 0.60 | Monitor Well Recharge Rate: Slow | | Fast | X | DTW (ft brp) 98R Time 1005 |
| | | | | | Temp. 1000 | Temp. 75° |
| | | | | | Skies | Clear, sunny |
| | | | | | Wind (mph) 0-3 | From S-SW |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|-----------------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 936 | BEGIN PUMPING | | | | | | | | | | |
| 937 | 80.7 | 10 | 0.2 | 19.82 | 7.51 | 1.019 | -103.4 | 0.80 | 34.2 | | 11.57 gpm (flow meter) 11.2 |
| 941 | 128.93 | 51 | 1.2 | 19.96 | 7.48 | 1.023 | -194.6 | 1.02 | 18.8 | | 10.3 gpm (manua) |
| 943 | 142.6 | 75.8 | 1.8 | 20.02 | 7.46 | 1.021 | -172.9 | 1.08 | 3.20 | | 9.8 |
| 945 | 150.65 | 85 | 8.8 | 20.04 | 7.46 | 1.032 | -172.1 | 0.88 | 6.86 | | 9.7 |
| 947 | 157 | 100 | 2.4 | 20.05 | 7.45 | 1.038 | -170.2 | 0.86 | 2.55 | | 9.6 gpm |
| 949 | 163.85 | 126 | 3.0 | 20.07 | 7.42 | 1.032 | -163.4 | 0.79 | 4.85 | | 9.4 |
| 952 | 168.6 | 147 | 3.5 | 20.09 | 7.40 | 1.031 | -155.6 | 0.68 | 3.14 | | 9.2 |
| 957 | 174.30 | 210 | 5.0 | 20.11 | 7.38 | 1.032 | -142.0 | 0.66 | 3.79 | | 9.2 gpm |
| 959 | NM | 220 | Pump OFF | | | | | | | | |

SAMPLE COLLECTION SAMPLE TIME 957

| 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

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 @ 908

Purged over 3 casing volumes to account for drawdown losses

GROUNDWATER SAMPLING INFORMATION

DATE: 5/9/12

TASK: 532.30

WELL ID: MW-35B

| | | | | | |
|---|---|---|--------------------|--------------------|--------------------|
| Time 1014 | Static DTW (ft below reference point) 66.49 | Screen Casing Volume (CV) (gallons) 207 | SV (gallons) 621 | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) 805 | Purging Device ded pump | Sampling Device ded ND pipe stand | Time 1015 | Temp. 75° | Begin Purge 1016 |
| Pump 5000 Water Column (feet) 345 | Pump: Depth (ft brp) 460' | Type gravel pack | Skies Clear, sunny | DTW (ft brp) 66.95 | End Purge 1056 |
| Casing Capacity (Diameter 4") (gallons per foot) 0.60 | Monitor Well Recharge Rate: Slow | Fast X | Wind (mph) 0-4 | From W-SW | Gallons Purged 704 |
| | | | | | CVs Purged 5.0 |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|----------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1016 | PUMP ON | | | | | | | | | | |
| 1018 | 70.37 | 29 | 0.1 | 19.83 | 7.75 | 1.013 | -199.7 | 0.11 | 2.77 | | 15.5 gpm |
| 1024 | 70.54 | 122 | 0.6 | 20.18 | 7.70 | 0.848 | -148.2 | 0.30 | 1.09 | | 15.5 gpm |
| 1030 | 70.62 | 240 | 1.1 | 20.28 | 7.53 | 1.107 | -20.3 | 1.83 | 174 | | 15.5 gpm |
| 1036 | 70.65 | 366 | 1.5 | 20.28 | 7.54 | 1.122 | -71.8 | 1.67 | 172 | | 15.5 gpm |
| 1042 | 70.70 | 408 | 2.0 | 20.29 | 7.53 | 1.137 | -57.8 | 1.56 | 206 | | 15.5 gpm |
| 1048 | 70.73 | 501 | 2.4 | 20.29 | 7.52 | 1.147 | -49.7 | 1.52 | 27.0 | | 15.5 gpm |
| 1056 | 70.80 | 625 | 3.0 | 20.30 | 7.51 | 1.154 | -46.1 | 1.49 | 8.25 | | 15.5 gpm |
| 1059 | NM | 704 | PUMP OFF | | | | | | | | |

| | | | | |
|------------------------------------|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION SAMPLE TIME 1056 | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 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 | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/9/12

TASK: 532.30

WELL ID: MW-350

| | | | | | | | |
|--|---|-------------------------------|----------------------------------|--------------------|---------------------|--------------------|-------------------|
| Time 1115 | Static DTW (ft below reference point) 68.56 | Screen SV | Casing Volume (CV) (gallons) 348 | SV | 1044 | Weather Conditions | Initials AMB & DM |
| Casing Total Depth (ft below reference point) 990 | Purging Device ded pump | Sampling Device ND pipe stand | Time 1100 | Temp. ~75° | Begin Purge 1120 | End Purge 3.0 | |
| Water Column (feet) 580 | Pump: Depth (ft brp) 1040 | Type groutless | Voltage 240V | Skies Clear, Sunny | Gallons Purged 1091 | CVs Purged 3.0 | |
| 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) 69.22 | 1234 |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|-------------------------|
| | | | | Temp. (C) | pH | EC (MS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1120 | BEGIN PUMPING | | | | | | | | | | |
| 1121 | 71.10 | 16 | 0.1 | 19.81 | 7.49 | 0.948 | -71.8 | 1.19 | 82.4 | | 15.3 gpm |
| 1131 | 71.40 | 149 | 0.5 | 20.27 | 7.24 | 1.013 | -9.8 | 0.91 | 4.32 | | 15.4 gpm |
| 1141 | 71.45 | 318 | 0.9 | 20.34 | 7.21 | 0.954 | -1.5 | NM | 9.14 | | 15.2 gpm |
| 1151 | 71.59 | 469 | 1.4 | 20.44 | 7.21 | 0.821 | 53.4 | 3.6 | 23.0 | | 15.2 gpm |
| 1201 | 71.60 | 627 | 1.8 | 20.44 | 7.27 | 0.821 | 58.0 | 4.0 | 15.2 | | 15.2 gpm DO = 3.69 mg/L |
| 1213 | 71.70 | 808 | 2.3 | 20.45 | 7.21 | 0.820 | 66.6 | 3.64 | 6.53 | | 15.2 gpm |
| 1225 | 71.81 | 993 | 2.8 | 20.46 | 7.30 | 0.821 | 38.9 | 3.60 | 12.2 | | 15.3 gpm |
| 1229 | 71.85 | 1070 | 3.0 | 20.46 | 7.43 | 0.821 | 3.2 | 3.53 | 0.68 | | 15.3 gpm |
| 1232 | 71.89 | 1091 | PUMP OFF | | | | | | | | |

| | | | | |
|-------------------------------------|--|---------|-------------------|--------------------|
| SAMPLE COLLECTION TIME 1229 | AIR MONITORING PID/FID ppm: VAULT NA | BKGD NA | BREATHING ZONE NA | DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) | | | |
| 8260B VOCs 5 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) | | | | |

GROUNDWATER SAMPLING INFORMATION

DATE: 5/1/12

TASK: 532.30

WELL ID: MW-36

| | | | |
|--|--|---------------------------------------|--|
| Time <u>1348</u> Static DTW (ft below reference point) <u>71.60</u> | Casing Volume (CV) (gallons) <u>320</u> 3 CV (gallons) <u>960</u> | Weather Conditions | Initials <u>AMB & DM</u> |
| Casing Total Depth (ft below reference point) <u>994.3</u> | Purging Device <u>ded pump</u> Sampling Device <u>ded. 40 pipe stand</u> | Time <u>1345</u> Temp. <u>80°</u> | Begin Purge <u>1358</u> End Purge <u>1537</u> |
| Water Column (feet) <u>553.3</u> | Pump: Depth (ft brp) <u>460</u> Type <u>granules</u> Voltage <u>240</u> HP | Skies <u>clear</u> | Gallons Purged <u>963</u> CVs Purged <u>30</u> |
| Casing Capacity (Diameter <u>4"</u>) (gallons per foot) <u>0.60</u> | Monitor Well Recharge Rate: Slow _____ Fast <u>X</u> | Wind (mph) <u>1-3</u> From <u>CCW</u> | DTW (ft brp) <u>71.95</u> Time <u>1540</u> |

| Time | Depth to Water | Volume Purged (Gallons) | Casing Volumes Purged | ...FIELD PARAMETERS... | | | | | | Pump Frequency Hz | COMMENTS |
|------|----------------|-------------------------|-----------------------|------------------------|------|------------|-------------|-------------|-----------------|-------------------|---------------------|
| | | | | Temp. (°C) | pH | EC (µS/cm) | O.R.P. (mV) | D.O. (mg/L) | Turbidity (NTU) | | |
| 1350 | Pump | ON | | | | | | | | | Pump off @ 1359 |
| 1400 | Pump | ON | | | | | | | | | 9.5 gpm sulfur odor |
| 1401 | 73.63 | 10.0 | 0.1 | 20.39 | 7.81 | 0.593 | -169.0 | 0.81 | 2.11 | | 9.5 gpm |
| 1412 | 73.58 | 171 | 0.5 | 21.35 | 7.64 | 0.588 | -173.6 | 0.96 | 3.15 | | 9.6 gpm sulfur odor |
| 1433 | 73.64 | 325 | 1.0 | 21.82 | 7.92 | 0.631 | -93.6 | 2.40 | 4.27 | | 9.6 gpm |
| 1449 | 73.76 | 476 | 1.5 | 21.87 | 7.98 | 0.630 | -88.6 | 2.22 | 1.82 | | 9.6 gpm |
| 1505 | 73.82 | 631 | 2.0 | 21.87 | 7.98 | 0.629 | -78.4 | 2.47 | 1.05 | | 9.6 gpm |
| 1521 | 73.87 | 785 | 2.5 | 21.87 | 7.35 | 0.629 | -77.0 | 0.64 | 1.76 | | 9.6 gpm |
| 1537 | 73.91 | 963 | 3.0 | 22.27 | 7.94 | 0.629 | -75.9 | 2.26 | 1.24 | | 9.6 gpm |
| 1538 | Pump | OFF | | | | | | | | | |

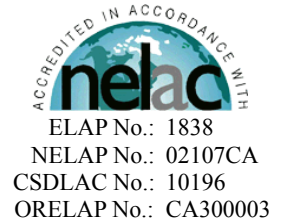
| | |
|--|--|
| SAMPLE COLLECTION SAMPLE TIME <u>1537</u> | AIR MONITORING PID/FID ppm: VAULT NA BKGD NA BREATHING ZONE NA DISCHARGE WATER NA |
| ANALYSIS QUANTITY TYPE | NOTES (Color, odor, sand and silt content, factors possibly affecting samples, condition of vault, wellhead, sampling apparatus, etc.) |
| 8260B VOCs <u>3</u> 40 ml VOA | |
| 8270 SIM 1,4 dioxane <u>1</u> 1 L Amber | |
| 8270 MOD 1,4 dioxane <u>1</u> 1 L Amber | |
| DUPLICATES / SPLITS / BLANKS? Y <u>(N)</u> | |

APPENDIX B
LABORATORY ANALYTICAL REPORTS

GROUNDWATER SAMPLING ANALYTICAL RESULTS

May 17, 2012

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 : 1201701
Client Reference : Raytheon, 532.30

Enclosed are the results for sample(s) received on May 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,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

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 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

SUMMARY OF SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|-------------|---------------|---------------|
| TB-050712 | 1201701-01 | LAB H2O | 5/07/12 16:00 | 5/08/12 9:38 |
| MW-21 | 1201701-02 | Groundwater | 5/07/12 16:15 | 5/08/12 9:38 |
| MW-2100 | 1201701-03 | Groundwater | 5/07/12 16:45 | 5/08/12 9:38 |
| EW-01 | 1201701-04 | Groundwater | 5/07/12 16:32 | 5/08/12 9:38 |

CASE NARRATIVE

Sample Receiving / General Comments

Headspace >5-6mm was noted on one vov vial for sample MW-21.



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID TB-050712

Lab ID: 1201701-01

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 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/17/2012

Client Sample ID TB-050712
Lab ID: 1201701-01

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 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:00 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>96.2 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 00:00</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>97.1 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 00:00</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>98.6 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 00:00</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>98.1 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 00:00</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID MW-21

Lab ID: 1201701-02

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 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,1,1-Trichloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,1,2-Trichloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,1-Dichloroethane | 6.5 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,1-Dichloroethene | 490 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,1-Dichloropropene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2,3-Trichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2,3-Trichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2,4-Trichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2,4-Trimethylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2-Dibromoethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2-Dichloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,2-Dichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,3,5-Trimethylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,3-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,3-Dichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 1,4-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 2,2-Dichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 2-Chlorotoluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 4-Chlorotoluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| 4-Isopropyltoluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Benzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Bromobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Bromodichloromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Bromoform | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Bromomethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Carbon tetrachloride | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Chlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Chloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Chloroform | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Chloromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID MW-21

Lab ID: 1201701-02

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 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| cis-1,3-Dichloropropene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Dibromochloromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Dibromomethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Dichlorodifluoromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Ethylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Hexachlorobutadiene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Isopropylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| m,p-Xylene | ND | 8.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Methylene chloride | ND | 8.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| n-Butylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| n-Propylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Naphthalene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| o-Xylene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| sec-Butylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Styrene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| tert-Butylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Tetrachloroethene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Toluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| trans-1,2-Dichloroethene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Trichloroethene | 11 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Trichlorofluoromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| Vinyl chloride | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 14:42 | D4 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>81.8 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 14:42</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>98.1 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 14:42</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>93.0 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 14:42</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>99.5 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 14:42</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID MW-21

Lab ID: 1201701-02

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 | 23 | 2.0 | NA | 1 | B2E0386 | 05/14/2012 | 05/15/12 15:15 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>79.8 %</i> | | <i>37 - 93</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 15:15</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>86.0 %</i> | | <i>51 - 100</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 15:15</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>128 %</i> | | <i>58 - 113</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 15:15</i> | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>86.5 %</i> | | <i>39 - 95</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 15:15</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID MW-2100

Lab ID: 1201701-03

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 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,1,1-Trichloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,1,2-Trichloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,1-Dichloroethane | 6.3 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,1-Dichloroethene | 480 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,1-Dichloropropene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2,3-Trichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2,3-Trichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2,4-Trichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2,4-Trimethylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2-Dibromoethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2-Dichloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,2-Dichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,3,5-Trimethylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,3-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,3-Dichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 1,4-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 2,2-Dichloropropane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 2-Chlorotoluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 4-Chlorotoluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| 4-Isopropyltoluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Benzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Bromobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Bromodichloromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Bromoform | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Bromomethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Carbon tetrachloride | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Chlorobenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Chloroethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Chloroform | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Chloromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID MW-2100

Lab ID: 1201701-03

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 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| cis-1,3-Dichloropropene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Dibromochloromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Dibromomethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Dichlorodifluoromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Ethylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Hexachlorobutadiene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Isopropylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| m,p-Xylene | ND | 8.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Methylene chloride | ND | 8.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| n-Butylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| n-Propylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Naphthalene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| o-Xylene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| sec-Butylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Styrene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| tert-Butylbenzene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Tetrachloroethene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Toluene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| trans-1,2-Dichloroethene | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Trichloroethene | 12 | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Trichlorofluoromethane | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| Vinyl chloride | ND | 4.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 15:02 | D4 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>84.1 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 15:02</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>100 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 15:02</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>94.1 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 15:02</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>101 %</i> | | <i>70 - 130</i> | | B2E0301 | 05/10/2012 | <i>05/10/12 15:02</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/17/2012

Client Sample ID MW-2100
Lab ID: 1201701-03

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 | 19 | 2.0 | NA | 1 | B2E0386 | 05/14/2012 | 05/15/12 15:43 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 82.3 % | | 37 - 93 | | B2E0386 | 05/14/2012 | 05/15/12 15:43 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 89.4 % | | 51 - 100 | | B2E0386 | 05/14/2012 | 05/15/12 15:43 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 139 % | | 58 - 113 | | B2E0386 | 05/14/2012 | 05/15/12 15:43 | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | 88.9 % | | 39 - 95 | | B2E0386 | 05/14/2012 | 05/15/12 15:43 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID EW-01

Lab ID: 1201701-04

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 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,1-Dichloroethene | 18 | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/17/2012

Client Sample ID EW-01
Lab ID: 1201701-04

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 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Tetrachloroethene | 0.78 | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 02:42 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>99.2 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 02:42</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>98.5 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 02:42</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>101 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 02:42</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>101 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 02:42</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Client Sample ID EW-01

Lab ID: 1201701-04

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 | 7.0 | 2.0 | NA | 1 | B2E0386 | 05/14/2012 | 05/15/12 16:11 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>95.5 %</i> | | <i>37 - 93</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:11</i> | S8 |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>101 %</i> | | <i>51 - 100</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:11</i> | S8 |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>143 %</i> | | <i>58 - 113</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:11</i> | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>107 %</i> | | <i>39 - 95</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:11</i> | S8 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

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 B2E0285 - MSVOAW_LL

Blank (B2E0285-BLK1)

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|--|----|--|--|--|
| 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 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0285 - MSVOAW_LL (continued)

Blank (B2E0285-BLK1) - Continued

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|--|--|----|--|
| 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 | | 93.9 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 24 | | 25.0 | | 97.9 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 25 | | 25.0 | | 98.8 | 70 - 130 | | | |

LCS (B2E0285-BS1)

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 94.8 | 70 - 130 | | | |
| Benzene | 41 | 0.50 | 40.0 | | 103 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 105 | 70 - 130 | | | |
| MTBE | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | | | |
| Toluene | 42 | 0.50 | 40.0 | | 104 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 25 | | 25.0 | | 99.8 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 26 | | 25.0 | | 105 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 26 | | 25.0 | | 102 | 70 - 130 | | | |

LCS Dup (B2E0285-BS1)

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|-------|----|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 95.6 | 70 - 130 | 0.735 | 20 | |
| Benzene | 42 | 0.50 | 40.0 | | 104 | 70 - 130 | 0.628 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 3.28 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | 1.35 | 20 | |
| Toluene | 42 | 0.50 | 40.0 | | 105 | 70 - 130 | 0.668 | 20 | |



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Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/17/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0285 - MSVOAW_LL (continued)

LCS Dup (B2E0285-BSD1) - Continued

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|--|------|----------|------|----|--|
| Trichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 1.49 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 25 | | 25.0 | | 99.4 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 27 | | 25.0 | | 107 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 26 | | 25.0 | | 102 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 26 | | 25.0 | | 103 | 70 - 130 | | | |

Batch B2E0301 - MSVOAW_LL

Blank (B2E0301-BLK1)

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |



Hargis & Associates, Inc.

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Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/17/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0301 - MSVOAW_LL (continued)

Blank (B2E0301-BLK1) - Continued

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|--|--|----|--|
| 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 | | 112 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 30 | | 25.0 | | 121 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 29 | | 25.0 | | 116 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 120 | 70 - 130 | | | |

LCS (B2E0301-BS1)

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|-----|----------|--|--|--|
| 1,1-Dichloroethene | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | | | |
| Benzene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | | | |
| MTBE | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | | | |
| Toluene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 101 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|-----|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 25 | | 25.0 | | 100 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 26 | | 25.0 | | 104 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 26 | | 25.0 | | 103 | 70 - 130 | | | |



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Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/17/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0301 - MSVOAW_LL (continued)

LCS Dup (B2E0301-BSD1)

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|---|----|------|------|--|-----|----------|------|----|--|
| 1,1-Dichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 1.83 | 20 | |
| Benzene | 43 | 0.50 | 40.0 | | 107 | 70 - 130 | 1.55 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 109 | 70 - 130 | 1.53 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | 5.18 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | | 109 | 70 - 130 | 2.35 | 20 | |
| Trichloroethene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 6.08 | 20 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 26 | | 25.0 | | 103 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 27 | | 25.0 | | 107 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 26 | | 25.0 | | 104 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 26 | | 25.0 | | 105 | 70 - 130 | | | |

Matrix Spike (B2E0301-MS1)

Source: 1201715-02

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|---|----|------|------|----|-----|----------|--|--|----|
| 1,1-Dichloroethene | 22 | 0.50 | 20.0 | ND | 111 | 70 - 130 | | | |
| Benzene | 49 | 0.50 | 40.0 | ND | 122 | 70 - 130 | | | |
| Chlorobenzene | 25 | 0.50 | 20.0 | ND | 124 | 70 - 130 | | | |
| MTBE | 29 | 0.50 | 20.0 | ND | 146 | 70 - 130 | | | M2 |
| Toluene | 49 | 0.50 | 40.0 | ND | 121 | 70 - 130 | | | |
| Trichloroethene | 23 | 0.50 | 20.0 | ND | 117 | 70 - 130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 29 | | 25.0 | | 114 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 32 | | 25.0 | | 129 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 29 | | 25.0 | | 116 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 30 | | 25.0 | | 122 | 70 - 130 | | | |

Matrix Spike Dup (B2E0301-MSD1)

Source: 1201715-02

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|---|----|------|------|----|------|----------|-------|----|---|
| 1,1-Dichloroethene | 22 | 0.50 | 20.0 | ND | 110 | 70 - 130 | 0.633 | 20 | |
| Benzene | 45 | 0.50 | 40.0 | ND | 113 | 70 - 130 | 7.79 | 20 | |
| Chlorobenzene | 23 | 0.50 | 20.0 | ND | 113 | 70 - 130 | 9.39 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | ND | 106 | 70 - 130 | 31.2 | 20 | R |
| Toluene | 46 | 0.50 | 40.0 | ND | 114 | 70 - 130 | 6.09 | 20 | |
| Trichloroethene | 23 | 0.50 | 20.0 | ND | 113 | 70 - 130 | 3.21 | 20 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 23 | | 25.0 | | 92.7 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 26 | | 25.0 | | 105 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 24 | | 25.0 | | 96.8 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 26 | | 25.0 | | 103 | 70 - 130 | | | |



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Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/17/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0386 - MSSEMI_ISOTOPEDILN

Blank (B2E0386-BLK2)

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|----|
| 1,4-Dioxane | ND | 2.0 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 76 | | 100 | | 76.0 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 85 | | 100 | | 85.2 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 120 | | 100 | | 118 | 58 - 113 | | | S1 |
| Surrogate: Nitrobenzene-d5 | 87 | | 100 | | 86.7 | 39 - 95 | | | |

LCS (B2E0386-BS2)

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|--|
| 1,4-Dioxane | 100 | 2.0 | 100 | | 102 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 82 | | 100 | | 81.9 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 90 | | 100 | | 90.1 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 110 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 90 | | 100 | | 90.2 | 39 - 95 | | | |

Matrix Spike (B2E0386-MS2)

Source: 1201761-04

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|----|------|----------|--|--|--|
| 1,4-Dioxane | 160 | 2.0 | 100 | 58 | 104 | 0 - 200 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 87 | | 100 | | 86.7 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 89 | | 100 | | 89.2 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 110 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 94 | | 100 | | 94.1 | 39 - 95 | | | |

Matrix Spike Dup (B2E0386-MSD2)

Source: 1201761-04

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|----|------|----------|------|-----|----|
| 1,4-Dioxane | 150 | 2.0 | 100 | 58 | 88.6 | 0 - 200 | 10.1 | 200 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 86 | | 100 | | 85.8 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 94 | | 100 | | 93.8 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 112 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 96 | | 100 | | 95.5 | 39 - 95 | | | S8 |



Hargis & Associates, Inc.

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San Diego , CA 92122

Project Number : Raytheon, 532.30

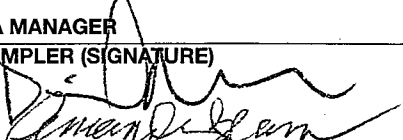
Report To : Steve Netto

Reported : 05/17/2012

Notes and Definitions

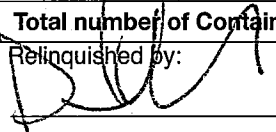
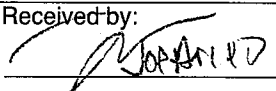
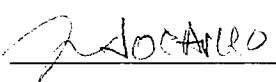
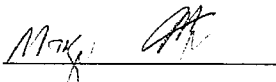
| | |
|-----|---|
| S8 | Surrogate recovery was above laboratory acceptance limit. See CAR for details. |
| S1 | Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample. |
| R | RPD value outside acceptance criteria. Calculation is based on raw values. |
| M2 | Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample. |
| D4 | Reporting limits adjusted to reflect sample amount analyzed. |
| 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) |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

| | | | | | | | | | | | | | |
|---|--|--|--|--------------------------|--|---------------------------|--|---|--|-------------------------|--|-------------------------------|--|
| PROJECT NAME Raytheon | | PROJECT No./TASK No. 532.30 | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAS | | SPECIAL HANDLING | | LABORATORY INFORMATION | |
| PROJECT MANAGER Steve Netto | | Phone No. 858-455-6500 | | | | | | | | | | ATL | |
| QA MANAGER | | Fax No. 858-455-6533 | | | | | | | | | | | |
| SAMPLER (SIGNATURE)  | | SAMPLER (PRINTED) Daniel Mora Amanda Beam | | | | | | | | | | | |

| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | PRESERVATION | | | | | 40 ml VOA | 1L Amber | VOCS 8260B | 1,4-Dioxane 8270 MOD | 1,4-Dioxane 8270 SIM | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAS | | | | SPECIAL HANDLING | | | REMARKS | | | | | | | | | | | | | |
|--------|------------|-------------------|--------|--------|--------------|---------------|---------|-----|------------------|------|-----------|----------|------------|----------------------|----------------------|--|-----|------|--------|------------------|--------------|---------|---------|--------|--------|--------------|--|--|--|--|--|--|--|--|--|--|
| | | Date | Time | Soil | Ground-water | Surface water | LAB #20 | HCl | HNO ₃ | NaOH | | | | | | H ₂ SO ₄ | Ice | 0-10 | 10-100 | 100-1,000 | 1,000-10,000 | >10,000 | | 24 TAT | 48 TAT | Standard TAT | | | | | | | | | | |
| | 1301701-01 | TB-050712 | 5/7/12 | 1600 | | | X | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | MW-21 | | 1615 | X | | | X | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | |
| | | ↓ | | ↓ | X | | | | | | X | | | X | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | MW-2100 | | 1645 | X | | | X | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | |
| | | ↓ | | ↓ | X | | | | | | X | | | X | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | EW-01 | | 1632 | X | | | X | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | |
| | | ↓ | 5/7/12 | ↓ | X | | | | | | X | | | X | | | | | | | | | | | | | | | | | | | | | | |

Total number of Containers per analysis: 11 3 Total No. of Containers: 14

| | | | |
|---|-----------------------|---|-----------------------|
| Relinquished by:  | Date <u>5/8/12</u> | Received by:  | Date <u>5/8/12</u> |
| Company <u>H+A</u> | Time <u>0820</u> | Company <u>ATL</u> | Time <u>0820</u> |
| Relinquished by:  | Date <u>5/8/12</u> | Received by:  | Date <u>5/8/12</u> |
| Company <u>ATL</u> | Time <u>738</u> | Company <u>ATL</u> | Time <u>738</u> |

INSTRUCTIONS

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

Sample Receipt:

Temp. @ receipt 2-4 °C

No. of containers correct received good condition/cold

custody seals secure conforms to COC document

Shipment Method: Carrier Pick up

Send Results to: Steve Netto

9171 TOWNE CENTRE DRIVE, SUITE 375
SAN DIEGO, CA 92122 (658) 455-6500

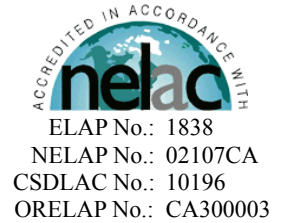
1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

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

Send invoice to San Diego, CA
Attn: Accounts Payable

May 18, 2012

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 : 1201715
Client Reference : Raytheon, 532.30

Enclosed are the results for sample(s) received on May 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,

A handwritten signature in black ink, appearing to read 'E. Rodriguez'.

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 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

SUMMARY OF SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|-------------|---------------|---------------|
| TB-050812 | 1201715-01 | LAB H2O | 5/08/12 8:00 | 5/08/12 18:05 |
| MW-32A | 1201715-02 | Groundwater | 5/08/12 9:56 | 5/08/12 18:05 |
| MW-32C | 1201715-03 | Groundwater | 5/08/12 12:47 | 5/08/12 18:05 |
| MW-32B | 1201715-04 | Groundwater | 5/08/12 14:29 | 5/08/12 18:05 |
| MW-33 | 1201715-05 | Groundwater | 5/08/12 17:11 | 5/08/12 18:05 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID TB-050812

Lab ID: 1201715-01

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 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID TB-050812

Lab ID: 1201715-01

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 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 00:40 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>120 %</i> | | <i>70 - 130</i> | | B2E0285 | 05/10/2012 | <i>05/10/12 00:40</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>122 %</i> | | <i>70 - 130</i> | | B2E0285 | 05/10/2012 | <i>05/10/12 00:40</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>122 %</i> | | <i>70 - 130</i> | | B2E0285 | 05/10/2012 | <i>05/10/12 00:40</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>122 %</i> | | <i>70 - 130</i> | | B2E0285 | 05/10/2012 | <i>05/10/12 00:40</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-32A

Lab ID: 1201715-02

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 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/18/2012

Client Sample ID MW-32A
Lab ID: 1201715-02

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 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0301 | 05/10/2012 | 05/10/12 12:00 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>110 %</i> | <i>70 - 130</i> | | | B2E0301 | 05/10/2012 | <i>05/10/12 12:00</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>116 %</i> | <i>70 - 130</i> | | | B2E0301 | 05/10/2012 | <i>05/10/12 12:00</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>113 %</i> | <i>70 - 130</i> | | | B2E0301 | 05/10/2012 | <i>05/10/12 12:00</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>115 %</i> | <i>70 - 130</i> | | | B2E0301 | 05/10/2012 | <i>05/10/12 12:00</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-32A

Lab ID: 1201715-02

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 | ND | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 13:12 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>93.2 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 13:12</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>84.4 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 13:12</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>101 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 13:12</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>71.4 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 13:12</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-32C

Lab ID: 1201715-03

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 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/18/2012

Client Sample ID MW-32C
Lab ID: 1201715-03

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 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Tetrachloroethene | 0.56 | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:02 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>101 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:02</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>99.8 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:02</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>101 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:02</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>100 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:02</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/18/2012

Client Sample ID MW-32C
Lab ID: 1201715-03

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 | ND | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 13:42 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 86.9 % | | 36 - 107 | | B2E0430 | 05/15/2012 | 05/16/12 13:42 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 77.0 % | | 42 - 120 | | B2E0430 | 05/15/2012 | 05/16/12 13:42 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 93.5 % | | 67 - 142 | | B2E0430 | 05/15/2012 | 05/16/12 13:42 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 67.0 % | | 36 - 130 | | B2E0430 | 05/15/2012 | 05/16/12 13:42 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-32B

Lab ID: 1201715-04

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 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,1-Dichloroethene | 39 | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-32B

Lab ID: 1201715-04

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 | 2.8 | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Trichloroethene | 30 | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0343 | 05/11/2012 | 05/11/12 14:03 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>99.2 %</i> | | <i>70 - 130</i> | | B2E0343 | 05/11/2012 | <i>05/11/12 14:03</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>115 %</i> | | <i>70 - 130</i> | | B2E0343 | 05/11/2012 | <i>05/11/12 14:03</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>110 %</i> | | <i>70 - 130</i> | | B2E0343 | 05/11/2012 | <i>05/11/12 14:03</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>113 %</i> | | <i>70 - 130</i> | | B2E0343 | 05/11/2012 | <i>05/11/12 14:03</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/18/2012

Client Sample ID MW-32B
Lab ID: 1201715-04

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 | 1.4 | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 14:11 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>86.1 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:11</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>80.4 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:11</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>96.6 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:11</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>69.4 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:11</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-33

Lab ID: 1201715-05

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 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,1-Dichloroethene | 4.2 | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-33

Lab ID: 1201715-05

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 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Trichloroethene | 0.83 | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0285 | 05/10/2012 | 05/10/12 03:22 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>102 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:22</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>99.8 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:22</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>105 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:22</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>101 %</i> | <i>70 - 130</i> | | | B2E0285 | 05/10/2012 | <i>05/10/12 03:22</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID MW-33

Lab ID: 1201715-05

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 | ND | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 14:39 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>74.9 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:39</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>66.1 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:39</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>91.5 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:39</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>60.9 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 14:39</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

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 B2E0285 - MSVOAW_LL

Blank (B2E0285-BLK1)

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|--|----|--|--|--|
| 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 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0285 - MSVOAW_LL (continued)

Blank (B2E0285-BLK1) - Continued

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|----|--|--|--|
| 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 | | 93.9 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 24 | | 25.0 | | 97.9 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 25 | | 25.0 | | 98.8 | 70 - 130 | | | |

LCS (B2E0285-BS1)

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 94.8 | 70 - 130 | | | |
| Benzene | 41 | 0.50 | 40.0 | | 103 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 105 | 70 - 130 | | | |
| MTBE | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | | | |
| Toluene | 42 | 0.50 | 40.0 | | 104 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 25 | | 25.0 | | 99.8 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 26 | | 25.0 | | 105 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 26 | | 25.0 | | 102 | 70 - 130 | | | |

LCS Dup (B2E0285-BS1)

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|-------|----|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 95.6 | 70 - 130 | 0.735 | 20 | |
| Benzene | 42 | 0.50 | 40.0 | | 104 | 70 - 130 | 0.628 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 3.28 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | 1.35 | 20 | |
| Toluene | 42 | 0.50 | 40.0 | | 105 | 70 - 130 | 0.668 | 20 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0285 - MSVOAW_LL (continued)

LCS Dup (B2E0285-BSD1) - Continued

Prepared: 5/9/2012 Analyzed: 5/9/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|--|------|----------|------|----|--|
| Trichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 1.49 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 25 | | 25.0 | | 99.4 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 27 | | 25.0 | | 107 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 26 | | 25.0 | | 102 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 26 | | 25.0 | | 103 | 70 - 130 | | | |

Batch B2E0301 - MSVOAW_LL

Blank (B2E0301-BLK1)

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0301 - MSVOAW_LL (continued)

Blank (B2E0301-BLK1) - Continued

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|--|--|----|--|
| 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 | | 112 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 30 | | 25.0 | | 121 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 29 | | 25.0 | | 116 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 120 | 70 - 130 | | | |

LCS (B2E0301-BS1)

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|-----|----------|--|--|--|
| 1,1-Dichloroethene | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | | | |
| Benzene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | | | |
| MTBE | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | | | |
| Toluene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 101 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|-----|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 25 | | 25.0 | | 100 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 26 | | 25.0 | | 104 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 26 | | 25.0 | | 103 | 70 - 130 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0301 - MSVOAW_LL (continued)

LCS Dup (B2E0301-BSD1)

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|---|----|------|------|--|-----|----------|------|----|--|
| 1,1-Dichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 1.83 | 20 | |
| Benzene | 43 | 0.50 | 40.0 | | 107 | 70 - 130 | 1.55 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 109 | 70 - 130 | 1.53 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | 5.18 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | | 109 | 70 - 130 | 2.35 | 20 | |
| Trichloroethene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 6.08 | 20 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 26 | | 25.0 | | 103 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 27 | | 25.0 | | 107 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 26 | | 25.0 | | 104 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 26 | | 25.0 | | 105 | 70 - 130 | | | |

Matrix Spike (B2E0301-MS1)

Source: 1201715-02

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|---|----|------|------|----|-----|----------|--|--|----|
| 1,1-Dichloroethene | 22 | 0.50 | 20.0 | ND | 111 | 70 - 130 | | | |
| Benzene | 49 | 0.50 | 40.0 | ND | 122 | 70 - 130 | | | |
| Chlorobenzene | 25 | 0.50 | 20.0 | ND | 124 | 70 - 130 | | | |
| MTBE | 29 | 0.50 | 20.0 | ND | 146 | 70 - 130 | | | M2 |
| Toluene | 49 | 0.50 | 40.0 | ND | 121 | 70 - 130 | | | |
| Trichloroethene | 23 | 0.50 | 20.0 | ND | 117 | 70 - 130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 29 | | 25.0 | | 114 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 32 | | 25.0 | | 129 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 29 | | 25.0 | | 116 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 30 | | 25.0 | | 122 | 70 - 130 | | | |

Matrix Spike Dup (B2E0301-MSD1)

Source: 1201715-02

Prepared: 5/10/2012 Analyzed: 5/10/2012

| | | | | | | | | | |
|---|----|------|------|----|------|----------|-------|----|---|
| 1,1-Dichloroethene | 22 | 0.50 | 20.0 | ND | 110 | 70 - 130 | 0.633 | 20 | |
| Benzene | 45 | 0.50 | 40.0 | ND | 113 | 70 - 130 | 7.79 | 20 | |
| Chlorobenzene | 23 | 0.50 | 20.0 | ND | 113 | 70 - 130 | 9.39 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | ND | 106 | 70 - 130 | 31.2 | 20 | R |
| Toluene | 46 | 0.50 | 40.0 | ND | 114 | 70 - 130 | 6.09 | 20 | |
| Trichloroethene | 23 | 0.50 | 20.0 | ND | 113 | 70 - 130 | 3.21 | 20 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 23 | | 25.0 | | 92.7 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 26 | | 25.0 | | 105 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 24 | | 25.0 | | 96.8 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 26 | | 25.0 | | 103 | 70 - 130 | | | |

Batch B2E0343 - MSVOAW_LL

Blank (B2E0343-BLK1)

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|---------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |



Hargis & Associates, Inc.

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Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

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 B2E0343 - MSVOAW_LL (continued)

Blank (B2E0343-BLK1) - Continued

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |
| Methylene chloride | ND | 1.0 | | | NR | | | | |
| n-Butylbenzene | ND | 0.50 | | | NR | | | | |



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Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0343 - MSVOAW_LL (continued)

Blank (B2E0343-BLK1) - Continued

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |

| | | | | | | | | | |
|---|----|--|------|--|------|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 24 | | 25.0 | | 97.0 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 30 | | 25.0 | | 120 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 28 | | 25.0 | | 112 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 30 | | 25.0 | | 122 | 70 - 130 | | | |

LCS (B2E0343-BS1)

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 93.2 | 70 - 130 | | | |
| Benzene | 41 | 0.50 | 40.0 | | 104 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | | | |
| MTBE | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | | | |
| Toluene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Trichloroethene | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | | | |

| | | | | | | | | | |
|---|----|--|------|--|------|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 23 | | 25.0 | | 92.1 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 26 | | 25.0 | | 103 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 25 | | 25.0 | | 98.0 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 25 | | 25.0 | | 102 | 70 - 130 | | | |

LCS Dup (B2E0343-BSD1)

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|-------|----|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 95.0 | 70 - 130 | 1.97 | 20 | |
| Benzene | 42 | 0.50 | 40.0 | | 105 | 70 - 130 | 1.44 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 0.186 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | 1.31 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | | 108 | 70 - 130 | 2.02 | 20 | |
| Trichloroethene | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | 0.434 | 20 | |

| | | | | | | | | | |
|---|----|--|------|--|------|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 23 | | 25.0 | | 92.0 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 25 | | 25.0 | | 98.4 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 26 | | 25.0 | | 102 | 70 - 130 | | | |



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Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

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 B2E0343 - MSVOAW_LL (continued)

Matrix Spike (B2E0343-MS1)

Source: 1201713-04

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------|----|------|------|------|-----|----------|--|--|----|
| 1,1-Dichloroethene | 41 | 0.50 | 20.0 | ND | 204 | 70 - 130 | | | M2 |
| Benzene | 67 | 0.50 | 40.0 | 0.56 | 166 | 70 - 130 | | | M2 |
| Chlorobenzene | 78 | 0.50 | 20.0 | 31 | 235 | 70 - 130 | | | M2 |
| MTBE | 43 | 0.50 | 20.0 | ND | 214 | 70 - 130 | | | M2 |
| Toluene | 70 | 0.50 | 40.0 | ND | 174 | 70 - 130 | | | M2 |
| Trichloroethene | 46 | 0.50 | 20.0 | ND | 229 | 70 - 130 | | | M2 |

| | | | | | | | | | |
|---|----|--|------|--|-----|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 26 | | 25.0 | | 106 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 32 | | 25.0 | | 126 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 28 | | 25.0 | | 111 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 31 | | 25.0 | | 123 | 70 - 130 | | | |

Matrix Spike Dup (B2E0343-MSD1)

Source: 1201713-04

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------|----|------|------|------|-----|----------|------|----|----|
| 1,1-Dichloroethene | 37 | 0.50 | 20.0 | ND | 184 | 70 - 130 | 10.8 | 20 | M2 |
| Benzene | 61 | 0.50 | 40.0 | 0.56 | 152 | 70 - 130 | 8.71 | 20 | M2 |
| Chlorobenzene | 73 | 0.50 | 20.0 | 31 | 208 | 70 - 130 | 7.19 | 20 | M2 |
| MTBE | 40 | 0.50 | 20.0 | ND | 202 | 70 - 130 | 5.50 | 20 | M2 |
| Toluene | 64 | 0.50 | 40.0 | ND | 159 | 70 - 130 | 9.27 | 20 | M2 |
| Trichloroethene | 42 | 0.50 | 20.0 | ND | 211 | 70 - 130 | 8.41 | 20 | M2 |

| | | | | | | | | | |
|---|----|--|------|--|------|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 22 | | 25.0 | | 86.1 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 25 | | 25.0 | | 102 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 22 | | 25.0 | | 89.9 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 25 | | 25.0 | | 99.4 | 70 - 130 | | | |



Hargis & Associates, Inc.
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Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/18/2012

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 | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0430 - MSSEMI_ISOTOPEDILN

Blank (B2E0430-BLK1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | ND | 0.20 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.89 | | 1.00 | | 89.2 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.79 | | 1.00 | | 79.1 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.96 | | 1.00 | | 96.1 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.51 | | 1.00 | | 51.1 | 36 - 130 | | | |

LCS (B2E0430-BS1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | 1.0 | 0.20 | 1.00 | | 101 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.93 | | 1.00 | | 93.3 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.80 | | 1.00 | | 79.8 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.88 | | 1.00 | | 88.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.59 | | 1.00 | | 58.8 | 36 - 130 | | | |

Matrix Spike (B2E0430-MS1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|--|--|--|
| 1,4-Dioxane | 0.98 | 0.20 | 1.00 | ND | 98.5 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.91 | | 1.00 | | 91.0 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.78 | | 1.00 | | 77.6 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.85 | | 1.00 | | 85.4 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.60 | | 1.00 | | 60.4 | 36 - 130 | | | |

Matrix Spike Dup (B2E0430-MSD1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|------|----|--|
| 1,4-Dioxane | 0.96 | 0.20 | 1.00 | ND | 95.9 | 70 - 130 | 2.65 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.92 | | 1.00 | | 92.1 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.76 | | 1.00 | | 76.0 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.78 | | 1.00 | | 78.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.65 | | 1.00 | | 64.9 | 36 - 130 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/18/2012

Notes and Definitions

| | |
|-----|---|
| R | RPD value outside acceptance criteria. Calculation is based on raw values. |
| 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) |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 5/8/12 PAGE 1 OF 1

| PROJECT NAME | | PROJECT No./TASK No. | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAS | | SPECIAL HANDLING | | LABORATORY INFORMATION | | | | | | | | | | | |
|-----------------------------|-----------|------------------------|------|-------------------|--------------|--------------------|----------------------|--|----------|------------------|----------------------|------------------------|------|--------|-----------|--------------|---------|--------|--------|--------------|--------------------|---------|--------------|
| Raytheon | | 532.30 | | | | | | | | | | ATL | | | | | | | | | | | |
| PROJECT MANAGER Steve Netto | | Phone No. 858-455-6500 | | | | | | | | | | | | | | | | | | | | | |
| QA MANAGER | | Fax No. 858-455-6533 | | | | | | | | | | | | | | | | | | | | | |
| SAMPLER (SIGNATURE) | | SAMPLER (PRINTED) | | | | | | | | | | | | | | | | | | | | | |
| | | Daniel Mora | | | | | | | | | | | | | | | | | | | | | |
| | | Amanda Beam | | | | | | | | | | | | | | | | | | | | | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | PRESERVATION | | 40 ml VOA | 1L Amber | VOCs 8260B | 1,4-Dioxane 8270 M0D | 1,4-Dioxane 8270 SIM | 0-10 | 10-100 | 100-1,000 | 1,000-10,000 | >10,000 | 24 TAT | 48 TAT | Standard TAT | MS & MSD collected | REMARKS | |
| | | Date | Time | Soil | Ground-water | Surface water | LAB H ₂ O | | | | | | | | | | | | | | | | HCl |
| 1201715-01 | TB-050812 | 5/8/12 | 800 | | | | | | | | | | | | | | | | | | | | |
| 2 | MW-32A | | 956 | X | | | X | 2 | | X | | | X | | | | | | | | | | |
| | ↓ | | 956 | X | | | X | 3 | | X | | | X | | | | | | | | | | 6VOAS |
| 3 | MW-32C | | 1247 | X | | | X | 3 | 1 | | X | | X | | | | | | | | | | 6VOAS + 2x1L |
| | ↓ | | 1247 | X | | | X | 3 | 1 | | X | | X | | | | | | | | | | 2 1L mb |
| 4 | MW-32B | | 1429 | X | | | X | 3 | 1 | X | | | X | | | | | | | | | | |
| | ↓ | | 1711 | X | | | X | 3 | 1 | X | | | X | | | | | | | | | | |
| 5 | MW-33 | | 1711 | X | | | X | 3 | 1 | X | | | X | | | | | | | | | | |
| | ↓ | | 1711 | X | | | X | 3 | 1 | X | | | X | | | | | | | | | | |

Total number of Containers per analysis: 14 4 Total No. of Containers: 18 + 8 = 26

Relinquished by:
Date: 5/8/12
Time: 1720
Company: HA

Received by:
Date: 5/8/12
Time: 1720
Company: ATL

Relinquished by:
Date: 5/8/12
Time: 1805
Company: ATL

Received by:
Date: 5/8/12
Time: 1805
Company: ATL

INSTRUCTIONS

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

Sample Receipt:

Temp. @ receipt 4.7 °C

No. of containers correct received good condition/cold

custody seals secure conforms to COC document

Shipment Method: Carrier Pick Up

Send Results to: Steve Netto

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

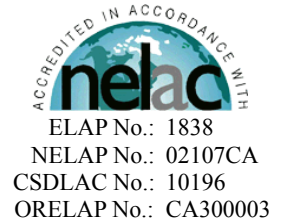
1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

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

Send invoice to San Diego, CA
Attn: Accounts Payable

May 21, 2012

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 : 1201735
Client Reference : Raytheon, 532.30

Enclosed are the results for sample(s) received on May 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,

A handwritten signature in black ink, appearing to read "E Rodriguez".

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 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

SUMMARY OF SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|-------------|---------------|---------------|
| TB-050912 | 1201735-01 | LAB H2O | 5/09/12 7:00 | 5/09/12 17:50 |
| MW-35A | 1201735-02 | Groundwater | 5/09/12 9:57 | 5/09/12 17:50 |
| MW-35B | 1201735-03 | Groundwater | 5/09/12 10:56 | 5/09/12 17:50 |
| MW-35C | 1201735-04 | Groundwater | 5/09/12 12:29 | 5/09/12 17:50 |
| MW-26C | 1201735-05 | Groundwater | 5/09/12 16:12 | 5/09/12 17:50 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID TB-050912

Lab ID: 1201735-01

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 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID TB-050912

Lab ID: 1201735-01

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 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:28 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>91.4 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 01:28</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>96.1 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 01:28</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>95.6 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 01:28</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>96.6 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 01:28</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-35A

Lab ID: 1201735-02

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 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Chloroform | 2.1 | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/21/2012

Client Sample ID MW-35A
Lab ID: 1201735-02

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 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 01:48 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>114 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 01:48</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>116 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 01:48</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>116 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 01:48</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>117 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 01:48</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-35A

Lab ID: 1201735-02

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 | ND | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 15:07 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>89.4 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 15:07</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>80.8 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 15:07</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>97.1 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 15:07</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>72.1 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 15:07</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-35B

Lab ID: 1201735-03

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 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/21/2012

Client Sample ID MW-35B
Lab ID: 1201735-03

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 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:09 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>119 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 02:09</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>123 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 02:09</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>123 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 02:09</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>122 %</i> | <i>70 - 130</i> | | | B2E0366 | 05/12/2012 | <i>05/12/12 02:09</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-35B

Lab ID: 1201735-03

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 | ND | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 15:35 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 89.2 % | | 36 - 107 | | B2E0430 | 05/15/2012 | 05/16/12 15:35 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 79.6 % | | 42 - 120 | | B2E0430 | 05/15/2012 | 05/16/12 15:35 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 94.3 % | | 67 - 142 | | B2E0430 | 05/15/2012 | 05/16/12 15:35 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 70.5 % | | 36 - 130 | | B2E0430 | 05/15/2012 | 05/16/12 15:35 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-35C

Lab ID: 1201735-04

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 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-35C

Lab ID: 1201735-04

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 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:29 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>120 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:29</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>121 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:29</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>123 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:29</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>122 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:29</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-35C

Lab ID: 1201735-04

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 | ND | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 16:05 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>87.6 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 16:05</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>76.3 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 16:05</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>98.9 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 16:05</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>69.1 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 16:05</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Client Sample ID MW-26C

Lab ID: 1201735-05

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 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/21/2012

Client Sample ID MW-26C
Lab ID: 1201735-05

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 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Toluene | 6.6 | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0366 | 05/12/2012 | 05/12/12 02:49 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>96.6 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:49</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>94.6 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:49</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>99.0 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:49</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>96.7 %</i> | | <i>70 - 130</i> | | B2E0366 | 05/12/2012 | <i>05/12/12 02:49</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/21/2012

Client Sample ID MW-26C
Lab ID: 1201735-05

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 | ND | 0.20 | 0.13 | 1 | B2E0430 | 05/15/2012 | 05/16/12 16:34 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 86.4 % | | 36 - 107 | | B2E0430 | 05/15/2012 | 05/16/12 16:34 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 76.9 % | | 42 - 120 | | B2E0430 | 05/15/2012 | 05/16/12 16:34 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 96.1 % | | 67 - 142 | | B2E0430 | 05/15/2012 | 05/16/12 16:34 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 71.6 % | | 36 - 130 | | B2E0430 | 05/15/2012 | 05/16/12 16:34 | |



Hargis & Associates, Inc.

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San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

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 B2E0366 - MSVOAW_LL

Blank (B2E0366-BLK1)

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|--|----|--|--|--|
| 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 | | | |



Hargis & Associates, Inc.

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San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0366 - MSVOAW_LL (continued)

Blank (B2E0366-BLK1) - Continued

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|--|--|----|--|
| 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 | 27 | | 25.0 | | 109 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 31 | | 25.0 | | 122 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 29 | | 25.0 | | 116 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 121 | 70 - 130 | | | |

LCS (B2E0366-BS1)

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|-----|----------|--|--|--|
| 1,1-Dichloroethene | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | | | |
| Benzene | 43 | 0.50 | 40.0 | | 108 | 70 - 130 | | | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 110 | 70 - 130 | | | |
| MTBE | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | | | |
| Toluene | 44 | 0.50 | 40.0 | | 110 | 70 - 130 | | | |
| Trichloroethene | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | 25.0 | | 97.9 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 26 | | 25.0 | | 102 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 26 | | 25.0 | | 103 | 70 - 130 | | | |

LCS Dup (B2E0366-BS1)

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|------|----|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 94.5 | 70 - 130 | 9.14 | 20 | |
| Benzene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | 1.81 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 1.19 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 105 | 70 - 130 | 1.10 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | | 107 | 70 - 130 | 2.03 | 20 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0366 - MSVOAW_LL (continued)

LCS Dup (B2E0366-BSD1) - Continued

Prepared: 5/11/2012 Analyzed: 5/11/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|--|------|----------|------|----|--|
| Trichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 3.92 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | 25.0 | | 95.2 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 25 | | 25.0 | | 101 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 25 | | 25.0 | | 100 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 25 | | 25.0 | | 102 | 70 - 130 | | | |

Matrix Spike (B2E0366-MS1)

Source: 1201735-05

Prepared: 5/12/2012 Analyzed: 5/12/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|-----|------|----------|--|--|--|
| 1,1-Dichloroethene | 15 | 0.50 | 20.0 | ND | 76.8 | 70 - 130 | | | |
| Benzene | 30 | 0.50 | 40.0 | ND | 74.6 | 70 - 130 | | | |
| Chlorobenzene | 14 | 0.50 | 20.0 | ND | 71.5 | 70 - 130 | | | |
| MTBE | 13 | 0.50 | 20.0 | ND | 67.1 | 70 - 130 | | | |
| Toluene | 36 | 0.50 | 40.0 | 6.6 | 74.1 | 70 - 130 | | | |
| Trichloroethene | 14 | 0.50 | 20.0 | ND | 70.4 | 70 - 130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 23 | | 25.0 | | 92.8 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 24 | | 25.0 | | 96.8 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 23 | | 25.0 | | 93.6 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 23 | | 25.0 | | 93.9 | 70 - 130 | | | |

Matrix Spike Dup (B2E0366-MSD1)

Source: 1201735-05

Prepared: 5/12/2012 Analyzed: 5/12/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|-----|-----|----------|------|----|-------|
| 1,1-Dichloroethene | 23 | 0.50 | 20.0 | ND | 116 | 70 - 130 | 40.4 | 20 | R |
| Benzene | 49 | 0.50 | 40.0 | ND | 122 | 70 - 130 | 47.9 | 20 | R |
| Chlorobenzene | 24 | 0.50 | 20.0 | ND | 120 | 70 - 130 | 50.6 | 20 | R |
| MTBE | 27 | 0.50 | 20.0 | ND | 133 | 70 - 130 | 65.8 | 20 | M2, R |
| Toluene | 54 | 0.50 | 40.0 | 6.6 | 119 | 70 - 130 | 39.5 | 20 | R |
| Trichloroethene | 23 | 0.50 | 20.0 | ND | 114 | 70 - 130 | 47.7 | 20 | R |
| Surrogate: 1,2-Dichloroethane-d4 | 28 | | 25.0 | | 113 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 31 | | 25.0 | | 124 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 29 | | 25.0 | | 116 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 119 | 70 - 130 | | | |



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 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/21/2012

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 | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0430 - MSSEMI_ISOTOPEDILN

Blank (B2E0430-BLK1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | ND | 0.20 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.89 | | 1.00 | | 89.2 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.79 | | 1.00 | | 79.1 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.96 | | 1.00 | | 96.1 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.51 | | 1.00 | | 51.1 | 36 - 130 | | | |

LCS (B2E0430-BS1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | 1.0 | 0.20 | 1.00 | | 101 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.93 | | 1.00 | | 93.3 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.80 | | 1.00 | | 79.8 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.88 | | 1.00 | | 88.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.59 | | 1.00 | | 58.8 | 36 - 130 | | | |

Matrix Spike (B2E0430-MS1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|--|--|--|
| 1,4-Dioxane | 0.98 | 0.20 | 1.00 | ND | 98.5 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.91 | | 1.00 | | 91.0 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.78 | | 1.00 | | 77.6 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.85 | | 1.00 | | 85.4 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.60 | | 1.00 | | 60.4 | 36 - 130 | | | |

Matrix Spike Dup (B2E0430-MSD1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|------|----|--|
| 1,4-Dioxane | 0.96 | 0.20 | 1.00 | ND | 95.9 | 70 - 130 | 2.65 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.92 | | 1.00 | | 92.1 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.76 | | 1.00 | | 76.0 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.78 | | 1.00 | | 78.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.65 | | 1.00 | | 64.9 | 36 - 130 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/21/2012

Notes and Definitions

| | |
|-----|---|
| R | RPD value outside acceptance criteria. Calculation is based on raw values. |
| 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) |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

| PROJECT NAME Raytheon | | PROJECT No./TASK No. 532.30 | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAS | | SPECIAL HANDLING | | LABORATORY INFORMATION | | | | | | | | | | | | | |
|--------------------------------|------------|---|---------|-----------------------|--------------|--|-----------------------|--|------------------|---|--------------------------------|------------------------|-----|---|--|--|--|--|--|--|--|--|--|--|-------------|
| PROJECT MANAGER Steve Netto | | Phone No. 858-455-6500 | | 40 ml VOA 1L Amber | | VOCs 8260B 1,4-Dioxane 8270 MOD 1,4-Dioxane 8270 SIM | | 8-10 10-100 100-1,000 1,000-10,000 >10,000 | | 24 TAT 48 TRI Standard TAT MS & MSDENRATED | | ATL | | | | | | | | | | | | | |
| QA MANAGER | | Fax No. 858-455-6533 | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLER (SIGNATURE) | | SAMPLER (PRINTED) Daniel Mora Amanda Beam | | | | | | | | | | | | | | | | | | | | | | | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | | PRESERVATION | | | | | REMARKS | | | | | | | | | | | | | |
| | | Date | Time | Soil | Ground-water | Surface water | 1/8" H ₂ O | HCl | HNO ₃ | NaOH | H ₂ SO ₄ | | Ice | | | | | | | | | | | | |
| | 1201795-01 | TB-USC912 | 5/19/12 | 7:00 | | | X | X | | | X | 2 | | X | | | | | | | | | | | |
| | 2 | MW-35A | | 9:57 | X | | | X | | | X | 3 | | X | | | | | | | | | | | |
| | | ↓ | | ↓ | X | | | | | | X | 3 | | X | | | | | | | | | | | |
| | 3 | MW-35B | | 10:56 | X | | | | | | X | 1 | | X | | | | | | | | | | | |
| | | ↓ | | ↓ | X | | | X | | | X | 3 | | X | | | | | | | | | | | |
| | 4 | MW-35C | | 12:29 | X | | | X | | | X | 3 | | X | | | | | | | | | | | |
| | | ↓ | | ↓ | X | | | | | | X | 1 | | X | | | | | | | | | | | |
| | 5 | MW-26C | | 16:12 | X | | | X | | | X | 3 | | X | | | | | | | | | | | 6 VOAS |
| | | ↓ | | ↓ | X | | | | | | X | 1 | | X | | | | | | | | | | | 2 1L Ambers |

Total number of Containers per analysis: 14 / 4 Total No. of Containers: 10 + 8 = 26

| | | | |
|----------------------|-----------------|------------------|-----------------|
| Relinquished by: | Date 5/19/12 | Received by: | Date 5/19/12 |
| Company H+A, INC | Time 17:15 | Company ATL | Time 17:15 |
| Relinquished by: | Date 5/19/12 | Received by: | Date 5/19/12 |
| Company ATL | Time 17:50 | Company ATL | Time 17:50 |

INSTRUCTIONS

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

Sample Receipt:

No. of containers correct received good condition/cold

custody seals secure conforms to COC document

Temp. @ receipt 21.0 °C

Shipment Method: Owner pick up

Send Results to: Steve Netto

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

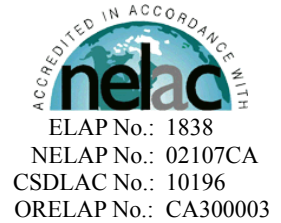
1640 SOUTH STAPLEY DRIVE, SUITE 124
MESA, AZ 85204 (480) 345-0888

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

Send invoice to San Diego, CA
Attn: Accounts Payable

May 22, 2012

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 : 1201761
Client Reference : Raytheon, 532.30

Enclosed are the results for sample(s) received on May 10, 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,

A handwritten signature in black ink, appearing to read "E Rodriguez".

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 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

SUMMARY OF SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|-------------|---------------|---------------|
| TB-051012A | 1201761-01 | LAB H2O | 5/10/12 7:00 | 5/10/12 17:00 |
| MW-34C | 1201761-02 | Groundwater | 5/10/12 9:42 | 5/10/12 17:00 |
| MW-34A | 1201761-03 | Groundwater | 5/10/12 10:20 | 5/10/12 17:00 |
| MW-34B | 1201761-04 | Groundwater | 5/10/12 10:55 | 5/10/12 17:00 |
| MW-36 | 1201761-05 | Groundwater | 5/10/12 15:37 | 5/10/12 17:00 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID TB-051012A

Lab ID: 1201761-01

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 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID TB-051012A
Lab ID: 1201761-01

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 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:17 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>78.8 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 13:17</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>95.9 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 13:17</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>90.9 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 13:17</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>95.8 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 13:17</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-34C

Lab ID: 1201761-02

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 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-34C

Lab ID: 1201761-02

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 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:38 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>88.8 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:38</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>104 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:38</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>98.5 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:38</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>104 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:38</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-34C
Lab ID: 1201761-02

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 | ND | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 17:03 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>96.8 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:03</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>81.2 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:03</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>104 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:03</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>81.5 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:03</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-34A

Lab ID: 1201761-03

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 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-34A

Lab ID: 1201761-03

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 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Trichlorofluoromethane | 1.1 | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 13:58 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>99.2 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:58</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>119 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:58</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>111 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:58</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 13:58</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-34A

Lab ID: 1201761-03

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 | ND | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 17:31 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>91.4 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:31</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>78.6 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:31</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>96.6 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:31</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>74.0 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 17:31</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-34B

Lab ID: 1201761-04

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 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,1,2-Trichloroethane | 0.60 | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,1-Dichloroethane | 2.3 | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,1-Dichloroethene | 120 | 5.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 18:42 | D4 |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-34B

Lab ID: 1201761-04

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 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0614 | 05/21/2012 | 05/21/12 12:37 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>108 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 18:42</i> | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>105 %</i> | | <i>70 - 130</i> | | B2E0614 | 05/21/2012 | <i>05/21/12 12:37</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 18:42</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>106 %</i> | | <i>70 - 130</i> | | B2E0614 | 05/21/2012 | <i>05/21/12 12:37</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>107 %</i> | | <i>70 - 130</i> | | B2E0614 | 05/21/2012 | <i>05/21/12 12:37</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>117 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 18:42</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>105 %</i> | | <i>70 - 130</i> | | B2E0614 | 05/21/2012 | <i>05/21/12 12:37</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 18:42</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-34B
Lab ID: 1201761-04

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 | 58 | 2.0 | NA | 1 | B2E0386 | 05/14/2012 | 05/15/12 16:39 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>84.8 %</i> | | <i>37 - 93</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:39</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>95.3 %</i> | | <i>51 - 100</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:39</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>133 %</i> | | <i>58 - 113</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:39</i> | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>92.4 %</i> | | <i>39 - 95</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 16:39</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-36

Lab ID: 1201761-05

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 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,1-Dichloroethane | 0.52 | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,1-Dichloroethene | 45 | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-36
Lab ID: 1201761-05

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 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Toluene | 1.1 | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 14:18 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>103 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 14:18</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>118 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 14:18</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>113 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 14:18</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>117 %</i> | <i>70 - 130</i> | | | B2E0539 | 05/18/2012 | <i>05/18/12 14:18</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-36

Lab ID: 1201761-05

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 | 2.8 | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 18:00 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>95.3 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:00</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>76.5 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:00</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>96.7 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:00</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>74.9 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:00</i> | |



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9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

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 B2E0539 - MSVOAW_LL

Blank (B2E0539-BLK1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|--|----|--|--|--|
| 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 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0539 - MSVOAW_LL (continued)

Blank (B2E0539-BLK1) - Continued

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|--|--|----|--|
| 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 | 24 | | 25.0 | | 95.0 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 30 | | 25.0 | | 118 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 27 | | 25.0 | | 109 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 118 | 70 - 130 | | | |

LCS (B2E0539-BS1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 17 | 0.50 | 20.0 | | 85.6 | 70 - 130 | | | |
| Benzene | 41 | 0.50 | 40.0 | | 104 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | | | |
| MTBE | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | | | |
| Toluene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 21 | | 25.0 | | 83.8 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 24 | | 25.0 | | 94.9 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 23 | | 25.0 | | 92.0 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 24 | | 25.0 | | 95.8 | 70 - 130 | | | |

LCS Dup (B2E0539-BS1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|-------|----|--|
| 1,1-Dichloroethene | 17 | 0.50 | 20.0 | | 86.8 | 70 - 130 | 1.33 | 20 | |
| Benzene | 42 | 0.50 | 40.0 | | 105 | 70 - 130 | 1.44 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 1.02 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | 3.41 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | | 107 | 70 - 130 | 0.470 | 20 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0539 - MSVOAW_LL (continued)

LCS Dup (B2E0539-BSD1) - Continued

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|--|------|----------|------|----|--|
| Trichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 1.38 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 21 | | 25.0 | | 83.7 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 23 | | 25.0 | | 93.2 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 23 | | 25.0 | | 91.1 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 24 | | 25.0 | | 95.8 | 70 - 130 | | | |

Matrix Spike (B2E0539-MS1)

Source: 1201761-02

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|----|------|----------|--|--|--|
| 1,1-Dichloroethene | 20 | 0.50 | 20.0 | ND | 101 | 70 - 130 | | | |
| Benzene | 46 | 0.50 | 40.0 | ND | 115 | 70 - 130 | | | |
| Chlorobenzene | 23 | 0.50 | 20.0 | ND | 116 | 70 - 130 | | | |
| MTBE | 23 | 0.50 | 20.0 | ND | 114 | 70 - 130 | | | |
| Toluene | 47 | 0.50 | 40.0 | ND | 118 | 70 - 130 | | | |
| Trichloroethene | 23 | 0.50 | 20.0 | ND | 116 | 70 - 130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 25 | | 25.0 | | 98.9 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 30 | | 25.0 | | 121 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 27 | | 25.0 | | 109 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 118 | 70 - 130 | | | |

Matrix Spike Dup (B2E0539-MSD1)

Source: 1201761-02

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|----|------|----------|------|----|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | ND | 94.0 | 70 - 130 | 6.99 | 20 | |
| Benzene | 44 | 0.50 | 40.0 | ND | 110 | 70 - 130 | 4.09 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | ND | 112 | 70 - 130 | 3.52 | 20 | |
| MTBE | 22 | 0.50 | 20.0 | ND | 108 | 70 - 130 | 4.87 | 20 | |
| Toluene | 45 | 0.50 | 40.0 | ND | 112 | 70 - 130 | 5.00 | 20 | |
| Trichloroethene | 22 | 0.50 | 20.0 | ND | 110 | 70 - 130 | 5.23 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | 25.0 | | 94.7 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 30 | | 25.0 | | 120 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 27 | | 25.0 | | 107 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 118 | 70 - 130 | | | |

Batch B2E0614 - MSVOAW_LL

Blank (B2E0614-BLK1)

Prepared: 5/21/2012 Analyzed: 5/21/2012

| | | | | | | | | | |
|---------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0614 - MSVOAW_LL (continued)

Blank (B2E0614-BLK1) - Continued

Prepared: 5/21/2012 Analyzed: 5/21/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0614 - MSVOAW_LL (continued)

Blank (B2E0614-BLK1) - Continued

Prepared: 5/21/2012 Analyzed: 5/21/2012

| | | | | | | | | | |
|---|----|------|------|--|-----|----------|--|--|--|
| 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 | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 28 | | 25.0 | | 111 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 30 | | 25.0 | | 119 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 29 | | 25.0 | | 118 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 29 | | 25.0 | | 116 | 70 - 130 | | | |

LCS (B2E0614-BS1)

Prepared: 5/21/2012 Analyzed: 5/21/2012

| | | | | | | | | | |
|---|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 95.2 | 70 - 130 | | | |
| Benzene | 43 | 0.50 | 40.0 | | 107 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 105 | 70 - 130 | | | |
| MTBE | 20 | 0.50 | 20.0 | | 101 | 70 - 130 | | | |
| Toluene | 43 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 97.8 | 70 - 130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 22 | | 25.0 | | 89.3 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 23 | | 25.0 | | 93.2 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 23 | | 25.0 | | 91.4 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 24 | | 25.0 | | 94.2 | 70 - 130 | | | |

LCS Dup (B2E0614-BSD1)

Prepared: 5/21/2012 Analyzed: 5/21/2012

| | | | | | | | | | |
|---|----|------|------|--|------|----------|------|----|--|
| 1,1-Dichloroethene | 21 | 0.50 | 20.0 | | 103 | 70 - 130 | 8.21 | 20 | |
| Benzene | 45 | 0.50 | 40.0 | | 113 | 70 - 130 | 5.03 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 110 | 70 - 130 | 4.79 | 20 | |
| MTBE | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 6.42 | 20 | |
| Toluene | 45 | 0.50 | 40.0 | | 112 | 70 - 130 | 5.35 | 20 | |
| Trichloroethene | 21 | 0.50 | 20.0 | | 106 | 70 - 130 | 7.63 | 20 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 23 | | 25.0 | | 90.8 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 24 | | 25.0 | | 94.8 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 23 | | 25.0 | | 92.0 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 24 | | 25.0 | | 94.7 | 70 - 130 | | | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/22/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0386 - MSSEMI_ISOTOPEDILN

Blank (B2E0386-BLK2)

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|----|
| 1,4-Dioxane | ND | 2.0 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 76 | | 100 | | 76.0 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 85 | | 100 | | 85.2 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 120 | | 100 | | 118 | 58 - 113 | | | S1 |
| Surrogate: Nitrobenzene-d5 | 87 | | 100 | | 86.7 | 39 - 95 | | | |

LCS (B2E0386-BS2)

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|--|
| 1,4-Dioxane | 100 | 2.0 | 100 | | 102 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 82 | | 100 | | 81.9 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 90 | | 100 | | 90.1 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 110 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 90 | | 100 | | 90.2 | 39 - 95 | | | |

Matrix Spike (B2E0386-MS2)

Source: 1201761-04

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|----|------|----------|--|--|--|
| 1,4-Dioxane | 160 | 2.0 | 100 | 58 | 104 | 0 - 200 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 87 | | 100 | | 86.7 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 89 | | 100 | | 89.2 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 110 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 94 | | 100 | | 94.1 | 39 - 95 | | | |

Matrix Spike Dup (B2E0386-MSD2)

Source: 1201761-04

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|----|------|----------|------|-----|----|
| 1,4-Dioxane | 150 | 2.0 | 100 | 58 | 88.6 | 0 - 200 | 10.1 | 200 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 86 | | 100 | | 85.8 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 94 | | 100 | | 93.8 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 112 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 96 | | 100 | | 95.5 | 39 - 95 | | | S8 |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/22/2012

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 | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0430 - MSSEMI_ISOTOPEDILN

Blank (B2E0430-BLK1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | ND | 0.20 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.89 | | 1.00 | | 89.2 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.79 | | 1.00 | | 79.1 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.96 | | 1.00 | | 96.1 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.51 | | 1.00 | | 51.1 | 36 - 130 | | | |

LCS (B2E0430-BS1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | 1.0 | 0.20 | 1.00 | | 101 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.93 | | 1.00 | | 93.3 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.80 | | 1.00 | | 79.8 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.88 | | 1.00 | | 88.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.59 | | 1.00 | | 58.8 | 36 - 130 | | | |

Matrix Spike (B2E0430-MS1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|--|--|--|
| 1,4-Dioxane | 0.98 | 0.20 | 1.00 | ND | 98.5 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.91 | | 1.00 | | 91.0 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.78 | | 1.00 | | 77.6 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.85 | | 1.00 | | 85.4 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.60 | | 1.00 | | 60.4 | 36 - 130 | | | |

Matrix Spike Dup (B2E0430-MSD1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|------|----|--|
| 1,4-Dioxane | 0.96 | 0.20 | 1.00 | ND | 95.9 | 70 - 130 | 2.65 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.92 | | 1.00 | | 92.1 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.76 | | 1.00 | | 76.0 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.78 | | 1.00 | | 78.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.65 | | 1.00 | | 64.9 | 36 - 130 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

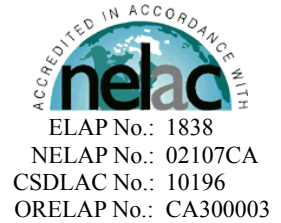
Reported : 05/22/2012

Notes and Definitions

- S8 Surrogate recovery was above laboratory acceptance limit. See CAR for details.
- S1 Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
- D4 Reporting limits adjusted to reflect sample amount analyzed.
- 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)

May 22, 2012

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 : 1201771
Client Reference : Raytheon, 532.30

Enclosed are the results for sample(s) received on May 11, 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,

A handwritten signature in black ink, appearing to read "E Rodriguez".

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 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

SUMMARY OF SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|-------------|---------------|---------------|
| MW-30A | 1201771-01 | Groundwater | 5/10/12 17:32 | 5/11/12 15:47 |
| MW-30B | 1201771-02 | Groundwater | 5/10/12 18:09 | 5/11/12 15:47 |
| TB-051112 | 1201771-03 | Lab H2O | 5/11/12 6:00 | 5/11/12 15:47 |
| MW-28 | 1201771-04 | Groundwater | 5/11/12 7:27 | 5/11/12 15:47 |
| MW-29 | 1201771-05 | Groundwater | 5/11/12 8:16 | 5/11/12 15:47 |
| MW-2900 | 1201771-06 | Groundwater | 5/11/12 8:36 | 5/11/12 15:47 |
| MW-31 | 1201771-07 | Groundwater | 5/11/12 9:10 | 5/11/12 15:47 |
| MW-08 | 1201771-08 | Groundwater | 5/11/12 13:16 | 5/11/12 15:47 |
| RB-051112 | 1201771-09 | Lab H2O | 5/11/12 12:40 | 5/11/12 15:47 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-30A

Lab ID: 1201771-01

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 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/22/2012

Client Sample ID MW-30A
Lab ID: 1201771-01

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 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:29 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>114 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:29</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>119 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:29</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>120 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:29</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>117 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:29</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-30A
Lab ID: 1201771-01

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 | ND | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 18:30 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>67.7 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:30</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>51.1 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:30</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>85.1 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:30</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>56.6 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:30</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-30B

Lab ID: 1201771-02

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 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,1-Dichloroethene | 12 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-30B

Lab ID: 1201771-02

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 | 3.8 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Toluene | 1.8 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Trichloroethene | 63 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>114 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:30</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>116 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:30</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>120 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:30</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>111 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:30</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-30B
Lab ID: 1201771-02

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 | 0.27 | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 18:59 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>63.9 %</i> | | <i>36 - 107</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:59</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>54.8 %</i> | | <i>42 - 120</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:59</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>80.3 %</i> | | <i>67 - 142</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:59</i> | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>60.7 %</i> | | <i>36 - 130</i> | | B2E0430 | 05/15/2012 | <i>05/16/12 18:59</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID TB-051112

Lab ID: 1201771-03

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 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID TB-051112

Lab ID: 1201771-03

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 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 01:50 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>115 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:50</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>120 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:50</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>121 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:50</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>120 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 01:50</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-28

Lab ID: 1201771-04

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 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,1-Dichloroethene | 0.99 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-28
Lab ID: 1201771-04

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 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 00:49 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>112 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 00:49</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>119 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 00:49</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>119 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 00:49</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>117 %</i> | <i>70 - 130</i> | | | B2E0530 | 05/18/2012 | <i>05/18/12 00:49</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-28
Lab ID: 1201771-04

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 | 0.22 | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 19:27 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 82.8 % | | 36 - 107 | | B2E0430 | 05/15/2012 | 05/16/12 19:27 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 73.1 % | | 42 - 120 | | B2E0430 | 05/15/2012 | 05/16/12 19:27 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 97.3 % | | 67 - 142 | | B2E0430 | 05/15/2012 | 05/16/12 19:27 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 69.5 % | | 36 - 130 | | B2E0430 | 05/15/2012 | 05/16/12 19:27 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-29

Lab ID: 1201771-05

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 | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,1,1-Trichloroethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,1,2-Trichloroethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,1-Dichloroethane | 8.3 | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,1-Dichloroethene | 780 | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:12 | D4 |
| 1,1-Dichloropropene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2,3-Trichloropropane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2,3-Trichlorobenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2,4-Trichlorobenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2,4-Trimethylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2-Dibromoethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2-Dichloroethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,2-Dichloropropane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,3,5-Trimethylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,3-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,3-Dichloropropane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 1,4-Dichlorobenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 2,2-Dichloropropane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 2-Chlorotoluene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 4-Chlorotoluene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| 4-Isopropyltoluene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Benzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Bromobenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Bromodichloromethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Bromoform | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Bromomethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Carbon tetrachloride | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Chlorobenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Chloroethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Chloroform | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Chloromethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-29

Lab ID: 1201771-05

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 | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| cis-1,3-Dichloropropene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Dibromochloromethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Dibromomethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Dichlorodifluoromethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Ethylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Hexachlorobutadiene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Isopropylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| m,p-Xylene | ND | 8.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Methylene chloride | ND | 8.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| n-Butylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| n-Propylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Naphthalene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| o-Xylene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| sec-Butylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Styrene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| tert-Butylbenzene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Tetrachloroethene | 5.7 | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Toluene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| trans-1,2-Dichloroethene | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Trichloroethene | 6.2 | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Trichlorofluoromethane | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| Vinyl chloride | ND | 4.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:23 | D4 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>109 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:23</i> | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>103 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:12</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>117 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:23</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>110 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:12</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>111 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:12</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>117 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:23</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>111 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:12</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:23</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-29
Lab ID: 1201771-05

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 | 300 | 2.0 | NA | 1 | B2E0386 | 05/14/2012 | 05/15/12 17:37 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>75.5 %</i> | | <i>37 - 93</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 17:37</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>84.6 %</i> | | <i>51 - 100</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 17:37</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>129 %</i> | | <i>58 - 113</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 17:37</i> | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>81.0 %</i> | | <i>39 - 95</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 17:37</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-2900

Lab ID: 1201771-06

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 | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,1,1-Trichloroethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,1,2-Trichloroethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,1-Dichloroethane | 8.5 | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,1-Dichloroethene | 830 | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,1-Dichloropropene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2,3-Trichloropropane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2,3-Trichlorobenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2,4-Trichlorobenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2,4-Trimethylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2-Dibromo-3-chloropropane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2-Dibromoethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2-Dichlorobenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2-Dichloroethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,2-Dichloropropane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,3,5-Trimethylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,3-Dichlorobenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,3-Dichloropropane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 1,4-Dichlorobenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 2,2-Dichloropropane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 2-Chlorotoluene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 4-Chlorotoluene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| 4-Isopropyltoluene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Benzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Bromobenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Bromodichloromethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Bromoform | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Bromomethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Carbon tetrachloride | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Chlorobenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Chloroethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Chloroform | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Chloromethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-2900

Lab ID: 1201771-06

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 | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| cis-1,3-Dichloropropene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Dibromochloromethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Dibromomethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Dichlorodifluoromethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Ethylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Hexachlorobutadiene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Isopropylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| m,p-Xylene | ND | 10 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Methylene chloride | ND | 10 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| n-Butylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| n-Propylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Naphthalene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| o-Xylene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| sec-Butylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Styrene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| tert-Butylbenzene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Tetrachloroethene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Toluene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| trans-1,2-Dichloroethene | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Trichloroethene | 5.3 | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Trichlorofluoromethane | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| Vinyl chloride | ND | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:33 | D4 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>114 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:33</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:33</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>121 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:33</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>117 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:33</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-2900

Lab ID: 1201771-06

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 | 280 | 2.0 | NA | 1 | B2E0386 | 05/14/2012 | 05/15/12 18:05 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>81.2 %</i> | | <i>37 - 93</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:05</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>91.6 %</i> | | <i>51 - 100</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:05</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>126 %</i> | | <i>58 - 113</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:05</i> | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>85.0 %</i> | | <i>39 - 95</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:05</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-31

Lab ID: 1201771-07

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 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,1-Dichloroethene | 48 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-31

Lab ID: 1201771-07

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 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Toluene | 0.75 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Trichloroethene | 5.9 | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:50 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:50</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:50</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>122 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:50</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>115 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:50</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-31

Lab ID: 1201771-07

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 | 0.49 | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 19:56 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 78.5 % | | 36 - 107 | | B2E0430 | 05/15/2012 | 05/16/12 19:56 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 65.4 % | | 42 - 120 | | B2E0430 | 05/15/2012 | 05/16/12 19:56 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 92.7 % | | 67 - 142 | | B2E0430 | 05/15/2012 | 05/16/12 19:56 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 75.4 % | | 36 - 130 | | B2E0430 | 05/15/2012 | 05/16/12 19:56 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-08

Lab ID: 1201771-08

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 | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,1,1-Trichloroethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,1,2-Trichloroethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,1-Dichloroethane | 1.4 | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,1-Dichloroethene | 340 | 5.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 05:53 | D4 |
| 1,1-Dichloropropene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2,3-Trichloropropane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2-Dibromoethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2-Dichlorobenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2-Dichloroethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,2-Dichloropropane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,3-Dichlorobenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,3-Dichloropropane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 1,4-Dichlorobenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 2,2-Dichloropropane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 2-Chlorotoluene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 4-Chlorotoluene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| 4-Isopropyltoluene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Benzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Bromobenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Bromodichloromethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Bromoform | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Bromomethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Carbon tetrachloride | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Chlorobenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Chloroethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Chloroform | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Chloromethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID MW-08

Lab ID: 1201771-08

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 | 5.0 | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| cis-1,3-Dichloropropene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Dibromochloromethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Dibromomethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Dichlorodifluoromethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Ethylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Hexachlorobutadiene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Isopropylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| m,p-Xylene | ND | 2.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Methylene chloride | ND | 2.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| n-Butylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| n-Propylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Naphthalene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| o-Xylene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| sec-Butylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Styrene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| tert-Butylbenzene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Tetrachloroethene | 1.1 | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Toluene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| trans-1,2-Dichloroethene | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Trichloroethene | 120 | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Trichlorofluoromethane | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| Vinyl chloride | ND | 1.0 | NA | 1 | B2E0539 | 05/18/2012 | 05/18/12 19:46 | D4 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>114 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:53</i> | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>106 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:46</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>117 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:53</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>116 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:46</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>115 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:46</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>118 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:53</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>112 %</i> | | <i>70 - 130</i> | | B2E0539 | 05/18/2012 | <i>05/18/12 19:46</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>114 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 05:53</i> | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : Raytheon, 532.30
Report To : Steve Netto
Reported : 05/22/2012

Client Sample ID MW-08
Lab ID: 1201771-08

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 | 6.3 | 0.20 | NA | 1 | B2E0430 | 05/15/2012 | 05/16/12 20:26 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 86.4 % | | 36 - 107 | | B2E0430 | 05/15/2012 | 05/16/12 20:26 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 78.1 % | | 42 - 120 | | B2E0430 | 05/15/2012 | 05/16/12 20:26 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 90.6 % | | 67 - 142 | | B2E0430 | 05/15/2012 | 05/16/12 20:26 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 78.2 % | | 36 - 130 | | B2E0430 | 05/15/2012 | 05/16/12 20:26 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID RB-051112

Lab ID: 1201771-09

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 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID RB-051112

Lab ID: 1201771-09

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 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0530 | 05/18/2012 | 05/18/12 02:10 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>108 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:10</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>106 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:10</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>111 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:10</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>107 %</i> | | <i>70 - 130</i> | | B2E0530 | 05/18/2012 | <i>05/18/12 02:10</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Client Sample ID RB-051112

Lab ID: 1201771-09

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 | ND | 2.0 | NA | 1 | B2E0386 | 05/14/2012 | 05/15/12 18:34 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>87.9 %</i> | | <i>37 - 93</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:34</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>103 %</i> | | <i>51 - 100</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:34</i> | S1 |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>137 %</i> | | <i>58 - 113</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:34</i> | S1 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>102 %</i> | | <i>39 - 95</i> | | B2E0386 | 05/14/2012 | <i>05/15/12 18:34</i> | S1 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

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 B2E0530 - MSVOAW_LL

Blank (B2E0530-BLK1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|--|----|--|--|--|
| 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 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0530 - MSVOAW_LL (continued)

Blank (B2E0530-BLK1) - Continued

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|--|--|----|--|
| 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 | |

| | | | | | | | | | |
|---|----|--|------|--|-----|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 28 | | 25.0 | | 110 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 30 | | 25.0 | | 120 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 29 | | 25.0 | | 117 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 30 | | 25.0 | | 120 | 70 - 130 | | | |

LCS (B2E0530-BS1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | | 96.4 | 70 - 130 | | | |
| Benzene | 42 | 0.50 | 40.0 | | 105 | 70 - 130 | | | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | | | |
| MTBE | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | | | |
| Toluene | 43 | 0.50 | 40.0 | | 109 | 70 - 130 | | | |
| Trichloroethene | 21 | 0.50 | 20.0 | | 103 | 70 - 130 | | | |

| | | | | | | | | | |
|---|----|--|------|--|------|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 21 | | 25.0 | | 85.6 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 24 | | 25.0 | | 95.6 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 23 | | 25.0 | | 92.4 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 24 | | 25.0 | | 97.4 | 70 - 130 | | | |

LCS Dup (B2E0530-BSD1)

Prepared: 5/17/2012 Analyzed: 5/17/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--------|----|--|
| 1,1-Dichloroethene | 20 | 0.50 | 20.0 | | 99.8 | 70 - 130 | 3.42 | 20 | |
| Benzene | 43 | 0.50 | 40.0 | | 108 | 70 - 130 | 2.18 | 20 | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | 0.746 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 105 | 70 - 130 | 0.335 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | | 109 | 70 - 130 | 0.0230 | 20 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0530 - MSVOAW_LL (continued)

LCS Dup (B2E0530-BSD1) - Continued

Prepared: 5/17/2012 Analyzed: 5/17/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|--|------|----------|-------|----|--|
| Trichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 0.832 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | 25.0 | | 94.9 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 24 | | 25.0 | | 95.6 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 24 | | 25.0 | | 94.9 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 24 | | 25.0 | | 96.3 | 70 - 130 | | | |

Matrix Spike (B2E0530-MS1)

Source: 1201771-04

Prepared: 5/17/2012 Analyzed: 5/17/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|------|------|----------|--|--|--|
| 1,1-Dichloroethene | 21 | 0.50 | 20.0 | 0.99 | 98.4 | 70 - 130 | | | |
| Benzene | 41 | 0.50 | 40.0 | ND | 102 | 70 - 130 | | | |
| Chlorobenzene | 20 | 0.50 | 20.0 | ND | 101 | 70 - 130 | | | |
| MTBE | 19 | 0.50 | 20.0 | ND | 97.0 | 70 - 130 | | | |
| Toluene | 41 | 0.50 | 40.0 | ND | 102 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | ND | 97.8 | 70 - 130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 27 | | 25.0 | | 108 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 31 | | 25.0 | | 124 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 28 | | 25.0 | | 113 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 118 | 70 - 130 | | | |

Matrix Spike Dup (B2E0530-MSD1)

Source: 1201771-04

Prepared: 5/17/2012 Analyzed: 5/17/2012

| | | | | | | | | | |
|----------------------------------|----|------|------|------|-----|----------|------|----|--|
| 1,1-Dichloroethene | 21 | 0.50 | 20.0 | 0.99 | 101 | 70 - 130 | 2.58 | 20 | |
| Benzene | 43 | 0.50 | 40.0 | ND | 108 | 70 - 130 | 5.50 | 20 | |
| Chlorobenzene | 21 | 0.50 | 20.0 | ND | 107 | 70 - 130 | 6.06 | 20 | |
| MTBE | 22 | 0.50 | 20.0 | ND | 111 | 70 - 130 | 13.1 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | ND | 106 | 70 - 130 | 4.54 | 20 | |
| Trichloroethene | 21 | 0.50 | 20.0 | ND | 103 | 70 - 130 | 5.23 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 27 | | 25.0 | | 107 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 31 | | 25.0 | | 124 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 28 | | 25.0 | | 113 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 30 | | 25.0 | | 119 | 70 - 130 | | | |

Batch B2E0539 - MSVOAW_LL

Blank (B2E0539-BLK1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|---------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0539 - MSVOAW_LL (continued)

Blank (B2E0539-BLK1) - Continued

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|----|--|--|--|--|
| 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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Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0539 - MSVOAW_LL (continued)

Blank (B2E0539-BLK1) - Continued

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|---|----|------|------|--|------|----------|--|--|--|
| 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 | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 24 | | 25.0 | | 95.0 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 30 | | 25.0 | | 118 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 27 | | 25.0 | | 109 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 30 | | 25.0 | | 118 | 70 - 130 | | | |

LCS (B2E0539-BS1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|---|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 17 | 0.50 | 20.0 | | 85.6 | 70 - 130 | | | |
| Benzene | 41 | 0.50 | 40.0 | | 104 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | | | |
| MTBE | 21 | 0.50 | 20.0 | | 104 | 70 - 130 | | | |
| Toluene | 42 | 0.50 | 40.0 | | 106 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 21 | | 25.0 | | 83.8 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 24 | | 25.0 | | 94.9 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 23 | | 25.0 | | 92.0 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 24 | | 25.0 | | 95.8 | 70 - 130 | | | |

LCS Dup (B2E0539-BSD1)

Prepared: 5/18/2012 Analyzed: 5/18/2012

| | | | | | | | | | |
|---|----|------|------|--|------|----------|-------|----|--|
| 1,1-Dichloroethene | 17 | 0.50 | 20.0 | | 86.8 | 70 - 130 | 1.33 | 20 | |
| Benzene | 42 | 0.50 | 40.0 | | 105 | 70 - 130 | 1.44 | 20 | |
| Chlorobenzene | 22 | 0.50 | 20.0 | | 108 | 70 - 130 | 1.02 | 20 | |
| MTBE | 21 | 0.50 | 20.0 | | 107 | 70 - 130 | 3.41 | 20 | |
| Toluene | 43 | 0.50 | 40.0 | | 107 | 70 - 130 | 0.470 | 20 | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 102 | 70 - 130 | 1.38 | 20 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 21 | | 25.0 | | 83.7 | 70 - 130 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 23 | | 25.0 | | 93.2 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 23 | | 25.0 | | 91.1 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 24 | | 25.0 | | 95.8 | 70 - 130 | | | |



Hargis & Associates, Inc.
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Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/22/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0386 - MSSEMI_ISOTOPEDILN

Blank (B2E0386-BLK2)

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|----|
| 1,4-Dioxane | ND | 2.0 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 76 | | 100 | | 76.0 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 85 | | 100 | | 85.2 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 120 | | 100 | | 118 | 58 - 113 | | | S1 |
| Surrogate: Nitrobenzene-d5 | 87 | | 100 | | 86.7 | 39 - 95 | | | |

LCS (B2E0386-BS2)

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|--|
| 1,4-Dioxane | 100 | 2.0 | 100 | | 102 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 82 | | 100 | | 81.9 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 90 | | 100 | | 90.1 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 110 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 90 | | 100 | | 90.2 | 39 - 95 | | | |

Matrix Spike (B2E0386-MS2)

Source: 1201761-04

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|----|------|----------|--|--|--|
| 1,4-Dioxane | 160 | 2.0 | 100 | 58 | 104 | 0 - 200 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 87 | | 100 | | 86.7 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 89 | | 100 | | 89.2 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 110 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 94 | | 100 | | 94.1 | 39 - 95 | | | |

Matrix Spike Dup (B2E0386-MSD2)

Source: 1201761-04

Prepared: 5/14/2012 Analyzed: 5/15/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|----|------|----------|------|-----|----|
| 1,4-Dioxane | 150 | 2.0 | 100 | 58 | 88.6 | 0 - 200 | 10.1 | 200 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 86 | | 100 | | 85.8 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 94 | | 100 | | 93.8 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 110 | | 100 | | 112 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 96 | | 100 | | 95.5 | 39 - 95 | | | S8 |



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Project Number : Raytheon, 532.30
 Report To : Steve Netto
 Reported : 05/22/2012

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 | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0430 - MSSEMI_ISOTOPEDILN

Blank (B2E0430-BLK1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | ND | 0.20 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.89 | | 1.00 | | 89.2 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.79 | | 1.00 | | 79.1 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.96 | | 1.00 | | 96.1 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.51 | | 1.00 | | 51.1 | 36 - 130 | | | |

LCS (B2E0430-BS1)

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | 1.0 | 0.20 | 1.00 | | 101 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.93 | | 1.00 | | 93.3 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.80 | | 1.00 | | 79.8 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.88 | | 1.00 | | 88.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.59 | | 1.00 | | 58.8 | 36 - 130 | | | |

Matrix Spike (B2E0430-MS1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|--|--|--|
| 1,4-Dioxane | 0.98 | 0.20 | 1.00 | ND | 98.5 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.91 | | 1.00 | | 91.0 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.78 | | 1.00 | | 77.6 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.85 | | 1.00 | | 85.4 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.60 | | 1.00 | | 60.4 | 36 - 130 | | | |

Matrix Spike Dup (B2E0430-MSD1)

Source: 1201715-02

Prepared: 5/15/2012 Analyzed: 5/16/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|----|------|----------|------|----|--|
| 1,4-Dioxane | 0.96 | 0.20 | 1.00 | ND | 95.9 | 70 - 130 | 2.65 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.92 | | 1.00 | | 92.1 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.76 | | 1.00 | | 76.0 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.78 | | 1.00 | | 78.2 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.65 | | 1.00 | | 64.9 | 36 - 130 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : Raytheon, 532.30

Report To : Steve Netto

Reported : 05/22/2012

Notes and Definitions

- S8 Surrogate recovery was above laboratory acceptance limit. See CAR for details.
- S1 Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample.
- D4 Reporting limits adjusted to reflect sample amount analyzed.
- 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)

| PROJECT NAME | | PROJECT No./TASK No. | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAS | | SPECIAL HANDLING | | LABORATORY INFORMATION | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|----------------------------|-------------------------|-------------------|---------------|--|----------------------|--|------------------|------------------|--------------------------------|--------------------------------|-----|-----------------------------------|----------|------------|----------------------|--|------|--------|-----------|--------------|---------|--------|--------|--------------|--------------|---------------|--|--|--|--|--|--|--|-------------|--|
| Raytheon | | 532.30 | | | | | | | | | | ATL ATTN: RACHELLE ARADA | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT MANAGER Steve Netto | | Phone No. 858-455-6500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QA MANAGER | | Fax No. 358-455-6533 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLER (SIGNATURE) | | SAMPLER (PRINTED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Amanda Beam</i> | | Daniel Mora Amanda Beam | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | PRESERVATION | | | | | | REMARKS | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Date | Time | Soil | Ground water | Surface water | LAB H ₂ O | HCl | HNO ₃ | NaOH | H ₂ SO ₄ | | Ice | 40 ml VOA | 1L Amber | VOCS 8260B | 1,4-Dioxane 8270 MOD | 1,4-Dioxane 8270 SIM | 0-10 | 10-100 | 100-1,000 | 1,000-10,000 | >10,000 | 24 TAT | 48 TAT | Standard TAT | MS collected | MSD collected | | | | | | | | | |
| 1201771-01 | MW-30A | 5/10/11 | 1732 | X | | | X | | | | X | | | 3 | | X | | | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | ↓ | X | | | | | | | X | | | 1 | | X | | | X | | | | | | | | | | | | | | | | | | |
| -02 | MW-30B | | 1809 | X | | | X | | | | X | | | 3 | | X | | X | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | ↓ | X | | | | | | | X | | | 1 | | X | | X | X | | | | | | | | | | | | | | | | | | |
| -03 | TB 051112 | 5/11/12 | 0600 | X | | X | X | | | | X | | | 2 | | X | | | X | | | | | | | | | | | | | | | | | | |
| -04 | MW-28 | | 727 | X | | | X | | | | X | | | 3 | | X | | | X | | | | | | | | | | | | | | | | | 6 VOAS | |
| | ↓ | | ↓ | X | | | | | | | X | | | 1 | | X | | X | X | | | | | | | | | | | | | | | | | 2 1L AMBERS | |
| -05 | MW-29 | | 816 | X | | | X | | | | X | | | 3 | | X | | | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | ↓ | X | | | | | | | X | | | 1 | | X | | X | X | | | | | | | | | | | | | | | | | | |
| -06 | MW-2900 | | 836 | X | | | X | | | | X | | | 3 | | X | | | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | ↓ | X | | | | | | | X | | | 1 | | X | | X | X | | | | | | | | | | | | | | | | | | |
| -07 | MW-31 | | 910 | X | | | X | | | | X | | | 3 | | X | | | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | ↓ | X | | | | | | | X | | | 1 | | X | | X | X | | | | | | | | | | | | | | | | | | |
| -08 | MW-08 | | 1316 | X | | | X | | | | X | | | 3 | | X | | | X | | | | | | | | | | | | | | | | | | |
| Total number of Containers per analysis: | | | | | | | | | | | | 23 | 6 | Total No. of Containers: 37 of 42 | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <i>Amanda Beam</i> | | Date: 5/11/12 | Received by: <i>FPD</i> | | Date: 5/11/12 | INSTRUCTIONS | | | | | | | | | | | | Shipment Method: <i>Drop-off</i> | | | | | | | | | | | | | | | | | | | |
| Company: H+A, Inc | | Time: 1547 | Company: <i>ST</i> | | Time: 1547 | <ol style="list-style-type: none"> Fill out form completely except for shaded areas (lab use only); sign only after verified for completeness. Complete in ballpoint pen. Draw one line through errors, initial and date correction. Indicate number of sample containers in analysis request space; indicate choice with ✓ or x. Note applicable preservatives, special instructions, and deviations from typical environmental samples. Consult project QA documents for specific instructions. | | | | | | | | | | | | Send Results to: Steve Netto | | | | | | | | | | | | | | | | | | | |
| Relinquished by: | | Date: | Received by: | | Date: | Sample Receipt: <input type="checkbox"/> No. of containers correct <input type="checkbox"/> received good condition/cold <input type="checkbox"/> custody seals secure <input type="checkbox"/> conforms to COC document | | | | | | | | | | | | <input checked="" type="checkbox"/> 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500 <input type="checkbox"/> 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888 <input type="checkbox"/> 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300 | | | | | | | | | | | | | | | | | | | |
| Company: | | Time: | Company: | | Time: | Temp. @ receipt 7.4 °C | | | | | | | | | | | | Send invoice to San Diego, CA Attn: Accounts Payable | | | | | | | | | | | | | | | | | | | |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

| PROJECT NAME Raytheon | | PROJECT No./TASK No. 532.30 | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAs | | SPECIAL HANDLING | | LABORATORY INFORMATION | | | | | | | | | | | | | |
|---|-----------|---|-------------------------------|-------------------|-----------------|--|--------------|--|------------|----------------------------------|----------------------|--|------|--------|-----------|--------------|---------|--------|--------|--------------|--|--|--|--|--|
| PROJECT MANAGER Steve Netto | | Phone No. 858-455-6500 | | | | | | | | | | ATL | | | | | | | | | | | | | |
| QA-MANAGER | | Fax No. 858-455-6533 | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLER (SIGNATURE) <i>Amanda Beam</i> | | SAMPLER (PRINTED) Daniel Mora Amanda Beam | | | | | | | | | | | | | | | | | | | | | | | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | | PRESERVATION | | | | | REMARKS | | | | | | | | | | | | | |
| | | Date | Time | Soil | Ground water | Surface water | 40 ml VOA | 1L Amber | VOCs 8260B | 1,4-Dioxane 8270 MOD | 1,4-Dioxane 8270 SIM | | 0-10 | 10-100 | 100-1,000 | 1,000-10,000 | >10,000 | 205TAT | 48 TAT | Standard TAT | | | | | |
| | (cont'd) | | | | | | | | | | | | | | | | | | | | | | | | |
| 1201771 -09 | MW-08 | 5/11/12 | 1316 | X | | | | | | | | | | | | | | | | | | | | | |
| | RB-051112 | 5/11/12 | 1240 | | X | X | | X | | X | X | | X | X | | | | | | | | | | | |
| | ↓ | 5/11/12 | ↓ | | X | | | | | | | | | | | | | | | | | | | | |
| Total number of Containers per analysis: | | | | | | | | 3 | 2 | Total No. of Containers: 5 of 42 | | | | | | | | | | | | | | | |
| Relinquished by: <i>Amanda Beam</i> | | Date 5/11/12 | Received by: <i>FPDINA</i> | | Date 5/11/12 | 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. | | | | | | Shipment Method: <i>Drop off</i> | | | | | | | | | | | | | |
| Company <i>H+A, Inc</i> | | Time 1547 | Company <i>ATL</i> | | Time 1547 | | | | | | | Send Results to: <i>Steve Netto</i> | | | | | | | | | | | | | |
| | | | | | | | | | | | | <input checked="" type="checkbox"/> 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500 <input type="checkbox"/> 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888 <input type="checkbox"/> 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300 | | | | | | | | | | | | | |
| Relinquished by: | | Date | Received by: | | Date | Sample Receipt: <input type="checkbox"/> No. of containers correct <input type="checkbox"/> received good condition/cold <input type="checkbox"/> custody seals secure <input type="checkbox"/> conforms to COC document | | | | | | Send invoice to San Diego, CA Attn: Accounts Payable | | | | | | | | | | | | | |
| Company | | Time | Company | | Time | | | | | | | | | | | | | | | | | | | | |

Rachelle Arada

From: Carmen Aguila [carmen@atglobal.com]
Sent: Wednesday, May 16, 2012 1:56 PM
To: Rachelle Arada
Cc: Ed Caballero; Eddie Rodriguez; Edgar Morrison
Subject: FW: 532.30 COC

Confirmation wo# 1201771.

From: Amanda Beam [mailto:ABeam@HARGIS.COM]
Sent: Wednesday, May 16, 2012 1:54 PM
To: Carmen Aguila
Cc: Daniel Mora
Subject: 532.30 COC

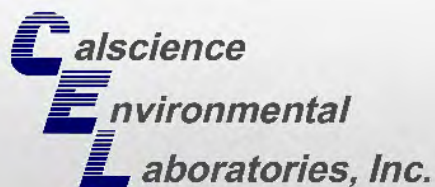
Carmen,

This is a follow-up email per our conversation for request of 8260B VOC analysis for the sample collected on 5/11/12 for MW-08 that was not marked on the COC for analysis. Please run the VOA's for VOC analysis.

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



Supplemental Report 2

Additional requested analyses are reported as a stand-alone report.



CALSCIENCE

WORK ORDER NUMBER: 12-05-0853

The difference is service



AIR · SOIL · WATER · MARINE CHEMISTRY

Analytical Report For

Client: Hargis + Associates, Inc.

Client Project Name: Raytheon Main / 532.30

Attention: Steve Netto
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Approved for release on 06/15/2012 by:
Virendra Patel
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any litigation which may arise.



Contents

Client Project Name: Raytheon Main / 532.30

Work Order Number: 12-05-0853

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| 2 | Client Sample Data | 4 |
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| | 2.2 EPA 8260B Volatile Organics (Aqueous) | 5 |
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Client: Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215
Attn: Steve Netto

Work Order: 12-05-0853
Project name: Raytheon Main / 532.30
Received: 05/11/12 13:00

DETECTIONS SUMMARY

Client Sample ID

| Analyte | Result | Qualifiers | Reporting Limit | Units | Method | Extraction |
|------------------------------|------------|------------|-----------------|-------|--------------|------------|
| MW-34B (12-05-0853-2) | | | | | | |
| 1,4-Dioxane | 62 | | 1.0 | ug/L | EPA 8260 SIM | EPA 5030C |
| 1,1-Dichloroethane | 1.6 | | 1.0 | ug/L | EPA 8260B | EPA 5030C |
| 1,1-Dichloroethene | 110 | | 1.0 | ug/L | EPA 8260B | EPA 5030C |
| MW-29 (12-05-0853-3) | | | | | | |
| 1,4-Dioxane | 290 | | 5.0 | ug/L | EPA 8260 SIM | EPA 5030C |
| 1,1-Dichloroethane | 6.0 | | 1.0 | ug/L | EPA 8260B | EPA 5030C |
| 1,2-Dichloroethane | 1.1 | | 0.50 | ug/L | EPA 8260B | EPA 5030C |
| 1,1-Dichloroethene | 730 | | 10 | ug/L | EPA 8260B | EPA 5030C |
| Tetrachloroethene | 1.1 | | 1.0 | ug/L | EPA 8260B | EPA 5030C |
| 1,1,2-Trichloroethane | 2.1 | | 1.0 | ug/L | EPA 8260B | EPA 5030C |
| Trichloroethene | 4.6 | | 1.0 | ug/L | EPA 8260B | EPA 5030C |

Subcontracted analyses, if any, are not included in this summary.

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*MDL is shown.



Analytical Report



Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 05/11/12
Work Order No: 12-05-0853
Preparation: EPA 5030C
Method: EPA 8260 SIM

Project: Raytheon Main / 532.30

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-34B | 12-05-0853-2-C | 05/10/12 10:55 | Aqueous | GC/MS M | 05/22/12 | 05/22/12 18:46 | 120522L01 |

| Parameter | Result | RL | DF | Qual | Units |
|--------------------------|----------------|-----------------------|----|-------------|-------|
| 1,4-Dioxane | 62 | 1.0 | 1 | | ug/L |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | | <u>Qual</u> | |
| N,N-Dimethylformamide-d7 | 67 | 50-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-29 | 12-05-0853-3-C | 05/11/12 08:16 | Aqueous | GC/MS M | 05/22/12 | 05/22/12 19:13 | 120522L01 |

| Parameter | Result | RL | DF | Qual | Units |
|--------------------------|----------------|-----------------------|----|-------------|-------|
| 1,4-Dioxane | 290 | 5.0 | 5 | | ug/L |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | | <u>Qual</u> | |
| N,N-Dimethylformamide-d7 | 62 | 50-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-118-9 | N/A | Aqueous | GC/MS M | 05/22/12 | 05/22/12 18:19 | 120522L01 |

| Parameter | Result | RL | DF | Qual | Units |
|--------------------------|----------------|-----------------------|----|-------------|-------|
| 1,4-Dioxane | ND | 1.0 | 1 | | ug/L |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | | <u>Qual</u> | |
| N,N-Dimethylformamide-d7 | 71 | 50-150 | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-15-118-10 | N/A | Aqueous | GC/MS M | 05/22/12 | 05/23/12 02:30 | 120522L02 |

| Parameter | Result | RL | DF | Qual | Units |
|--------------------------|----------------|-----------------------|----|-------------|-------|
| 1,4-Dioxane | ND | 1.0 | 1 | | ug/L |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | | <u>Qual</u> | |
| N,N-Dimethylformamide-d7 | 52 | 50-150 | | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report

Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 05/11/12
Work Order No: 12-05-0853
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

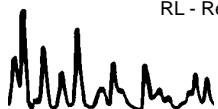
Project: Raytheon Main / 532.30

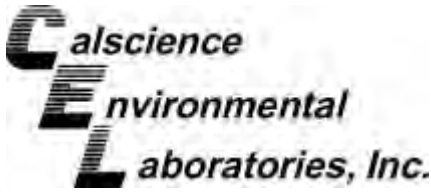
Page 1 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| TB-051012C | 12-05-0853-1-A | 05/10/12 07:00 | Aqueous | GC/MS CC | 05/12/12 | 05/12/12 17:13 | 120512L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|---------------------------------------|----------------|-----------------------|-------------|------|
| Acetone | ND | 20 | 1 | | 1,3-Dichloropropane | ND | 1.0 | 1 | |
| Benzene | ND | 0.50 | 1 | | 2,2-Dichloropropane | ND | 1.0 | 1 | |
| Bromobenzene | ND | 1.0 | 1 | | 1,1-Dichloropropene | ND | 1.0 | 1 | |
| Bromochloromethane | ND | 1.0 | 1 | | c-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromodichloromethane | ND | 1.0 | 1 | | t-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromoform | ND | 1.0 | 1 | | Ethylbenzene | ND | 1.0 | 1 | |
| Bromomethane | ND | 10 | 1 | | 2-Hexanone | ND | 10 | 1 | |
| 2-Butanone | ND | 10 | 1 | | Isopropylbenzene | ND | 1.0 | 1 | |
| n-Butylbenzene | ND | 1.0 | 1 | | p-Isopropyltoluene | ND | 1.0 | 1 | |
| sec-Butylbenzene | ND | 1.0 | 1 | | Methylene Chloride | ND | 10 | 1 | |
| tert-Butylbenzene | ND | 1.0 | 1 | | 4-Methyl-2-Pentanone | ND | 10 | 1 | |
| Carbon Disulfide | ND | 10 | 1 | | Naphthalene | ND | 10 | 1 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | | n-Propylbenzene | ND | 1.0 | 1 | |
| Chlorobenzene | ND | 1.0 | 1 | | Styrene | ND | 1.0 | 1 | |
| Chloroethane | ND | 5.0 | 1 | | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloroform | ND | 1.0 | 1 | | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloromethane | ND | 10 | 1 | | Tetrachloroethene | ND | 1.0 | 1 | |
| 2-Chlorotoluene | ND | 1.0 | 1 | | Toluene | ND | 1.0 | 1 | |
| 4-Chlorotoluene | ND | 1.0 | 1 | | 1,2,3-Trichlorobenzene | ND | 1.0 | 1 | |
| Dibromochloromethane | ND | 1.0 | 1 | | 1,2,4-Trichlorobenzene | ND | 1.0 | 1 | |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | 1 | | 1,1,1-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1 | |
| Dibromomethane | ND | 1.0 | 1 | | 1,1,2-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dichlorobenzene | ND | 1.0 | 1 | | Trichloroethene | ND | 1.0 | 1 | |
| 1,3-Dichlorobenzene | ND | 1.0 | 1 | | Trichlorofluoromethane | ND | 10 | 1 | |
| 1,4-Dichlorobenzene | ND | 1.0 | 1 | | 1,2,3-Trichloropropane | ND | 5.0 | 1 | |
| Dichlorodifluoromethane | ND | 1.0 | 1 | | 1,2,4-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,1-Dichloroethane | ND | 1.0 | 1 | | 1,3,5-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Vinyl Acetate | ND | 10 | 1 | |
| 1,1-Dichloroethene | ND | 1.0 | 1 | | Vinyl Chloride | ND | 0.50 | 1 | |
| c-1,2-Dichloroethene | ND | 1.0 | 1 | | p/m-Xylene | ND | 1.0 | 1 | |
| t-1,2-Dichloroethene | ND | 1.0 | 1 | | o-Xylene | ND | 1.0 | 1 | |
| 1,2-Dichloropropane | ND | 1.0 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| Surrogates: | REC (%) | Control Limits | Qual | | Surrogates: | REC (%) | Control Limits | Qual | |
| 1,4-Bromofluorobenzene | 93 | 80-120 | | | Dibromofluoromethane | 105 | 80-126 | | |
| 1,2-Dichloroethane-d4 | 100 | 80-134 | | | Toluene-d8 | 98 | 80-120 | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: 05/11/12
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: Raytheon Main / 532.30

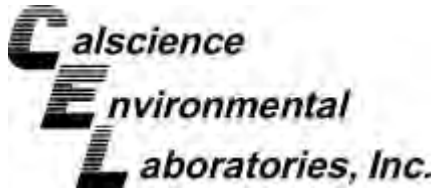
Page 2 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-34B | 12-05-0853-2-A | 05/10/12 10:55 | Aqueous | GC/MS CC | 05/12/12 | 05/12/12 17:41 | 120512L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|---------------------------------------|----------------|-----------------------|-------------|------|
| Acetone | ND | 20 | 1 | | 1,3-Dichloropropane | ND | 1.0 | 1 | |
| Benzene | ND | 0.50 | 1 | | 2,2-Dichloropropane | ND | 1.0 | 1 | |
| Bromobenzene | ND | 1.0 | 1 | | 1,1-Dichloropropene | ND | 1.0 | 1 | |
| Bromochloromethane | ND | 1.0 | 1 | | c-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromodichloromethane | ND | 1.0 | 1 | | t-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromoform | ND | 1.0 | 1 | | Ethylbenzene | ND | 1.0 | 1 | |
| Bromomethane | ND | 10 | 1 | | 2-Hexanone | ND | 10 | 1 | |
| 2-Butanone | ND | 10 | 1 | | Isopropylbenzene | ND | 1.0 | 1 | |
| n-Butylbenzene | ND | 1.0 | 1 | | p-Isopropyltoluene | ND | 1.0 | 1 | |
| sec-Butylbenzene | ND | 1.0 | 1 | | Methylene Chloride | ND | 10 | 1 | |
| tert-Butylbenzene | ND | 1.0 | 1 | | 4-Methyl-2-Pentanone | ND | 10 | 1 | |
| Carbon Disulfide | ND | 10 | 1 | | Naphthalene | ND | 10 | 1 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | | n-Propylbenzene | ND | 1.0 | 1 | |
| Chlorobenzene | ND | 1.0 | 1 | | Styrene | ND | 1.0 | 1 | |
| Chloroethane | ND | 5.0 | 1 | | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloroform | ND | 1.0 | 1 | | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloromethane | ND | 10 | 1 | | Tetrachloroethene | ND | 1.0 | 1 | |
| 2-Chlorotoluene | ND | 1.0 | 1 | | Toluene | ND | 1.0 | 1 | |
| 4-Chlorotoluene | ND | 1.0 | 1 | | 1,2,3-Trichlorobenzene | ND | 1.0 | 1 | |
| Dibromochloromethane | ND | 1.0 | 1 | | 1,2,4-Trichlorobenzene | ND | 1.0 | 1 | |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | 1 | | 1,1,1-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1 | |
| Dibromomethane | ND | 1.0 | 1 | | 1,1,2-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dichlorobenzene | ND | 1.0 | 1 | | Trichloroethene | ND | 1.0 | 1 | |
| 1,3-Dichlorobenzene | ND | 1.0 | 1 | | Trichlorofluoromethane | ND | 10 | 1 | |
| 1,4-Dichlorobenzene | ND | 1.0 | 1 | | 1,2,3-Trichloropropane | ND | 5.0 | 1 | |
| Dichlorodifluoromethane | ND | 1.0 | 1 | | 1,2,4-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,1-Dichloroethane | 1.6 | 1.0 | 1 | | 1,3,5-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Vinyl Acetate | ND | 10 | 1 | |
| 1,1-Dichloroethene | 110 | 1.0 | 1 | | Vinyl Chloride | ND | 0.50 | 1 | |
| c-1,2-Dichloroethene | ND | 1.0 | 1 | | p/m-Xylene | ND | 1.0 | 1 | |
| t-1,2-Dichloroethene | ND | 1.0 | 1 | | o-Xylene | ND | 1.0 | 1 | |
| 1,2-Dichloropropane | ND | 1.0 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| Surrogates: | REC (%) | Control Limits | Qual | | Surrogates: | REC (%) | Control Limits | Qual | |
| 1,4-Bromofluorobenzene | 94 | 80-120 | | | Dibromofluoromethane | 106 | 80-126 | | |
| 1,2-Dichloroethane-d4 | 103 | 80-134 | | | Toluene-d8 | 98 | 80-120 | | |

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: 05/11/12
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: Raytheon Main / 532.30

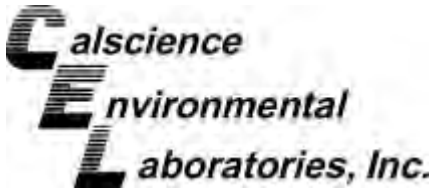
Page 3 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| MW-29 | 12-05-0853-3-A | 05/11/12 08:16 | Aqueous | GC/MS CC | 05/12/12 | 05/12/12 18:10 | 120512L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-----------|-------------|---------------------------------------|----------------|-----------------------|-----------|-------------|
| Acetone | ND | 20 | 1 | | 1,3-Dichloropropane | ND | 1.0 | 1 | |
| Benzene | ND | 0.50 | 1 | | 2,2-Dichloropropane | ND | 1.0 | 1 | |
| Bromobenzene | ND | 1.0 | 1 | | 1,1-Dichloropropene | ND | 1.0 | 1 | |
| Bromochloromethane | ND | 1.0 | 1 | | c-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromodichloromethane | ND | 1.0 | 1 | | t-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromoform | ND | 1.0 | 1 | | Ethylbenzene | ND | 1.0 | 1 | |
| Bromomethane | ND | 10 | 1 | | 2-Hexanone | ND | 10 | 1 | |
| 2-Butanone | ND | 10 | 1 | | Isopropylbenzene | ND | 1.0 | 1 | |
| n-Butylbenzene | ND | 1.0 | 1 | | p-Isopropyltoluene | ND | 1.0 | 1 | |
| sec-Butylbenzene | ND | 1.0 | 1 | | Methylene Chloride | ND | 10 | 1 | |
| tert-Butylbenzene | ND | 1.0 | 1 | | 4-Methyl-2-Pentanone | ND | 10 | 1 | |
| Carbon Disulfide | ND | 10 | 1 | | Naphthalene | ND | 10 | 1 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | | n-Propylbenzene | ND | 1.0 | 1 | |
| Chlorobenzene | ND | 1.0 | 1 | | Styrene | ND | 1.0 | 1 | |
| Chloroethane | ND | 5.0 | 1 | | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloroform | ND | 1.0 | 1 | | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloromethane | ND | 10 | 1 | | Tetrachloroethene | 1.1 | 1.0 | 1 | |
| 2-Chlorotoluene | ND | 1.0 | 1 | | Toluene | ND | 1.0 | 1 | |
| 4-Chlorotoluene | ND | 1.0 | 1 | | 1,2,3-Trichlorobenzene | ND | 1.0 | 1 | |
| Dibromochloromethane | ND | 1.0 | 1 | | 1,2,4-Trichlorobenzene | ND | 1.0 | 1 | |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | 1 | | 1,1,1-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1 | |
| Dibromomethane | ND | 1.0 | 1 | | 1,1,2-Trichloroethane | 2.1 | 1.0 | 1 | |
| 1,2-Dichlorobenzene | ND | 1.0 | 1 | | Trichloroethene | 4.6 | 1.0 | 1 | |
| 1,3-Dichlorobenzene | ND | 1.0 | 1 | | Trichlorofluoromethane | ND | 10 | 1 | |
| 1,4-Dichlorobenzene | ND | 1.0 | 1 | | 1,2,3-Trichloropropane | ND | 5.0 | 1 | |
| Dichlorodifluoromethane | ND | 1.0 | 1 | | 1,2,4-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,1-Dichloroethane | 6.0 | 1.0 | 1 | | 1,3,5-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,2-Dichloroethane | 1.1 | 0.50 | 1 | | Vinyl Acetate | ND | 10 | 1 | |
| 1,1-Dichloroethene | 730 | 10 | 10 | | Vinyl Chloride | ND | 0.50 | 1 | |
| c-1,2-Dichloroethene | ND | 1.0 | 1 | | p/m-Xylene | ND | 1.0 | 1 | |
| t-1,2-Dichloroethene | ND | 1.0 | 1 | | o-Xylene | ND | 1.0 | 1 | |
| 1,2-Dichloropropane | ND | 1.0 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| Surrogates: | REC (%) | Control Limits | DF | Qual | Surrogates: | REC (%) | Control Limits | DF | Qual |
| 1,4-Bromofluorobenzene | 94 | 80-120 | | | Dibromofluoromethane | 105 | 80-126 | | |
| 1,2-Dichloroethane-d4 | 99 | 80-134 | | | Toluene-d8 | 98 | 80-120 | | |

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: 05/11/12
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: Raytheon Main / 532.30

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| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-14-001-7,779 | N/A | Aqueous | GC/MS CC | 05/12/12 | 05/12/12 11:58 | 120512L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-----------|-------------|---------------------------------------|----------------|-----------------------|-----------|-------------|
| Acetone | ND | 20 | 1 | | 1,3-Dichloropropane | ND | 1.0 | 1 | |
| Benzene | ND | 0.50 | 1 | | 2,2-Dichloropropane | ND | 1.0 | 1 | |
| Bromobenzene | ND | 1.0 | 1 | | 1,1-Dichloropropene | ND | 1.0 | 1 | |
| Bromochloromethane | ND | 1.0 | 1 | | c-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromodichloromethane | ND | 1.0 | 1 | | t-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromoform | ND | 1.0 | 1 | | Ethylbenzene | ND | 1.0 | 1 | |
| Bromomethane | ND | 10 | 1 | | 2-Hexanone | ND | 10 | 1 | |
| 2-Butanone | ND | 10 | 1 | | Isopropylbenzene | ND | 1.0 | 1 | |
| n-Butylbenzene | ND | 1.0 | 1 | | p-Isopropyltoluene | ND | 1.0 | 1 | |
| sec-Butylbenzene | ND | 1.0 | 1 | | Methylene Chloride | ND | 10 | 1 | |
| tert-Butylbenzene | ND | 1.0 | 1 | | 4-Methyl-2-Pentanone | ND | 10 | 1 | |
| Carbon Disulfide | ND | 10 | 1 | | Naphthalene | ND | 10 | 1 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | | n-Propylbenzene | ND | 1.0 | 1 | |
| Chlorobenzene | ND | 1.0 | 1 | | Styrene | ND | 1.0 | 1 | |
| Chloroethane | ND | 5.0 | 1 | | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloroform | ND | 1.0 | 1 | | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloromethane | ND | 10 | 1 | | Tetrachloroethene | ND | 1.0 | 1 | |
| 2-Chlorotoluene | ND | 1.0 | 1 | | Toluene | ND | 1.0 | 1 | |
| 4-Chlorotoluene | ND | 1.0 | 1 | | 1,2,3-Trichlorobenzene | ND | 1.0 | 1 | |
| Dibromochloromethane | ND | 1.0 | 1 | | 1,2,4-Trichlorobenzene | ND | 1.0 | 1 | |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | 1 | | 1,1,1-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1 | |
| Dibromomethane | ND | 1.0 | 1 | | 1,1,2-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dichlorobenzene | ND | 1.0 | 1 | | Trichloroethene | ND | 1.0 | 1 | |
| 1,3-Dichlorobenzene | ND | 1.0 | 1 | | Trichlorofluoromethane | ND | 10 | 1 | |
| 1,4-Dichlorobenzene | ND | 1.0 | 1 | | 1,2,3-Trichloropropane | ND | 5.0 | 1 | |
| Dichlorodifluoromethane | ND | 1.0 | 1 | | 1,2,4-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,1-Dichloroethane | ND | 1.0 | 1 | | 1,3,5-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Vinyl Acetate | ND | 10 | 1 | |
| 1,1-Dichloroethene | ND | 1.0 | 1 | | Vinyl Chloride | ND | 0.50 | 1 | |
| c-1,2-Dichloroethene | ND | 1.0 | 1 | | p/m-Xylene | ND | 1.0 | 1 | |
| t-1,2-Dichloroethene | ND | 1.0 | 1 | | o-Xylene | ND | 1.0 | 1 | |
| 1,2-Dichloropropane | ND | 1.0 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| Surrogates: | REC (%) | Control Limits | DF | Qual | Surrogates: | REC (%) | Control Limits | DF | Qual |
| 1,4-Bromofluorobenzene | 94 | 80-120 | | | Dibromofluoromethane | 103 | 80-126 | | |
| 1,2-Dichloroethane-d4 | 104 | 80-134 | | | Toluene-d8 | 97 | 80-120 | | |

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: 05/11/12
Work Order No: 12-05-0853
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

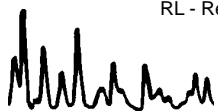
Project: Raytheon Main / 532.30

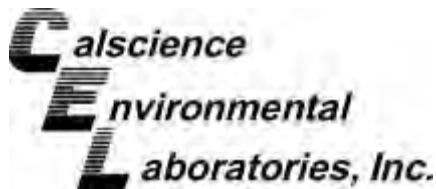
Page 5 of 5

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-14-001-7,789 | N/A | Aqueous | GC/MS CC | 05/14/12 | 05/14/12 15:29 | 120514L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-----------|-------------|---------------------------------------|----------------|-----------------------|-----------|-------------|
| Acetone | ND | 20 | 1 | | 1,3-Dichloropropane | ND | 1.0 | 1 | |
| Benzene | ND | 0.50 | 1 | | 2,2-Dichloropropane | ND | 1.0 | 1 | |
| Bromobenzene | ND | 1.0 | 1 | | 1,1-Dichloropropene | ND | 1.0 | 1 | |
| Bromochloromethane | ND | 1.0 | 1 | | c-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromodichloromethane | ND | 1.0 | 1 | | t-1,3-Dichloropropene | ND | 0.50 | 1 | |
| Bromoform | ND | 1.0 | 1 | | Ethylbenzene | ND | 1.0 | 1 | |
| Bromomethane | ND | 10 | 1 | | 2-Hexanone | ND | 10 | 1 | |
| 2-Butanone | ND | 10 | 1 | | Isopropylbenzene | ND | 1.0 | 1 | |
| n-Butylbenzene | ND | 1.0 | 1 | | p-Isopropyltoluene | ND | 1.0 | 1 | |
| sec-Butylbenzene | ND | 1.0 | 1 | | Methylene Chloride | ND | 10 | 1 | |
| tert-Butylbenzene | ND | 1.0 | 1 | | 4-Methyl-2-Pentanone | ND | 10 | 1 | |
| Carbon Disulfide | ND | 10 | 1 | | Naphthalene | ND | 10 | 1 | |
| Carbon Tetrachloride | ND | 0.50 | 1 | | n-Propylbenzene | ND | 1.0 | 1 | |
| Chlorobenzene | ND | 1.0 | 1 | | Styrene | ND | 1.0 | 1 | |
| Chloroethane | ND | 5.0 | 1 | | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloroform | ND | 1.0 | 1 | | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 1 | |
| Chloromethane | ND | 10 | 1 | | Tetrachloroethene | ND | 1.0 | 1 | |
| 2-Chlorotoluene | ND | 1.0 | 1 | | Toluene | ND | 1.0 | 1 | |
| 4-Chlorotoluene | ND | 1.0 | 1 | | 1,2,3-Trichlorobenzene | ND | 1.0 | 1 | |
| Dibromochloromethane | ND | 1.0 | 1 | | 1,2,4-Trichlorobenzene | ND | 1.0 | 1 | |
| 1,2-Dibromo-3-Chloropropane | ND | 5.0 | 1 | | 1,1,1-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 10 | 1 | |
| Dibromomethane | ND | 1.0 | 1 | | 1,1,2-Trichloroethane | ND | 1.0 | 1 | |
| 1,2-Dichlorobenzene | ND | 1.0 | 1 | | Trichloroethene | ND | 1.0 | 1 | |
| 1,3-Dichlorobenzene | ND | 1.0 | 1 | | Trichlorofluoromethane | ND | 10 | 1 | |
| 1,4-Dichlorobenzene | ND | 1.0 | 1 | | 1,2,3-Trichloropropane | ND | 5.0 | 1 | |
| Dichlorodifluoromethane | ND | 1.0 | 1 | | 1,2,4-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,1-Dichloroethane | ND | 1.0 | 1 | | 1,3,5-Trimethylbenzene | ND | 1.0 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Vinyl Acetate | ND | 10 | 1 | |
| 1,1-Dichloroethene | ND | 1.0 | 1 | | Vinyl Chloride | ND | 0.50 | 1 | |
| c-1,2-Dichloroethene | ND | 1.0 | 1 | | p/m-Xylene | ND | 1.0 | 1 | |
| t-1,2-Dichloroethene | ND | 1.0 | 1 | | o-Xylene | ND | 1.0 | 1 | |
| 1,2-Dichloropropane | ND | 1.0 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| Surrogates: | REC (%) | Control Limits | DF | Qual | Surrogates: | REC (%) | Control Limits | DF | Qual |
| 1,4-Bromofluorobenzene | 96 | 80-120 | | | Dibromofluoromethane | 115 | 80-126 | | |
| 1,2-Dichloroethane-d4 | 108 | 80-134 | | | Toluene-d8 | 99 | 80-120 | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: 05/11/12
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260B

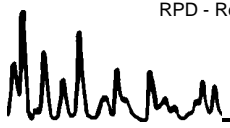
Project Raytheon Main / 532.30

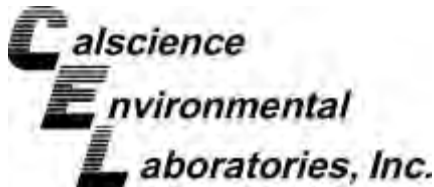
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 12-05-0880-1 | Aqueous | GC/MS CC | 05/12/12 | 05/12/12 | 120512S01 |

| Parameter | SAMPLE CONC | SPIKE ADDED | MS CONC | MS %REC | MSD CONC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-----------------------------|-------------|-------------|---------|---------|----------|----------|---------|-----|--------|------------|
| Benzene | ND | 50.00 | 49.62 | 99 | 42.92 | 86 | 78-120 | 14 | 0-20 | |
| Carbon Tetrachloride | ND | 50.00 | 58.10 | 116 | 49.55 | 99 | 67-139 | 16 | 0-20 | |
| Chlorobenzene | ND | 50.00 | 49.33 | 99 | 43.27 | 87 | 80-120 | 13 | 0-20 | |
| 1,2-Dibromoethane | ND | 50.00 | 46.56 | 93 | 43.14 | 86 | 80-123 | 8 | 0-20 | |
| 1,2-Dichlorobenzene | ND | 50.00 | 49.08 | 98 | 43.14 | 86 | 76-120 | 13 | 0-20 | |
| 1,2-Dichloroethane | ND | 50.00 | 50.92 | 102 | 45.29 | 91 | 76-130 | 12 | 0-20 | |
| 1,1-Dichloroethene | ND | 50.00 | 50.30 | 101 | 42.76 | 86 | 70-130 | 16 | 0-27 | |
| Ethylbenzene | ND | 50.00 | 53.61 | 107 | 46.61 | 93 | 73-127 | 14 | 0-20 | |
| Toluene | ND | 50.00 | 52.84 | 106 | 45.62 | 91 | 72-126 | 15 | 0-20 | |
| Trichloroethene | ND | 50.00 | 51.26 | 103 | 43.46 | 87 | 74-122 | 16 | 0-20 | |
| Vinyl Chloride | ND | 50.00 | 51.45 | 103 | 45.12 | 90 | 65-131 | 13 | 0-24 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 50.00 | 45.62 | 91 | 41.49 | 83 | 69-123 | 9 | 0-20 | |

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: 05/11/12
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260B

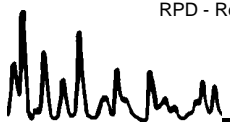
Project Raytheon Main / 532.30

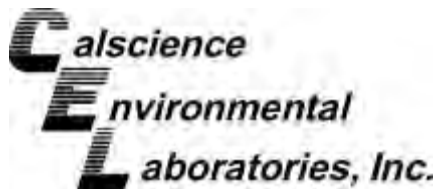
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 12-05-0922-1 | Aqueous | GC/MS CC | 05/14/12 | 05/14/12 | 120514S01 |

| Parameter | <u>SAMPLE CONC</u> | <u>SPIKE ADDED</u> | <u>MS CONC</u> | <u>MS %REC</u> | <u>MSD CONC</u> | <u>MSD %REC</u> | <u>%REC CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|-----------------------------|------------------------|------------------------|--------------------|--------------------|---------------------|---------------------|----------------|------------|---------------|-------------------|
| Benzene | ND | 50.00 | 48.20 | 96 | 44.21 | 88 | 78-120 | 9 | 0-20 | |
| Carbon Tetrachloride | ND | 50.00 | 55.86 | 112 | 52.66 | 105 | 67-139 | 6 | 0-20 | |
| Chlorobenzene | ND | 50.00 | 45.24 | 90 | 45.31 | 91 | 80-120 | 0 | 0-20 | |
| 1,2-Dibromoethane | ND | 50.00 | 42.93 | 86 | 41.98 | 84 | 80-123 | 2 | 0-20 | |
| 1,2-Dichlorobenzene | ND | 50.00 | 45.78 | 92 | 46.40 | 93 | 76-120 | 1 | 0-20 | |
| 1,2-Dichloroethane | ND | 50.00 | 48.08 | 96 | 45.56 | 91 | 76-130 | 5 | 0-20 | |
| 1,1-Dichloroethene | ND | 50.00 | 46.59 | 93 | 45.11 | 90 | 70-130 | 3 | 0-27 | |
| Ethylbenzene | ND | 50.00 | 48.94 | 98 | 48.82 | 98 | 73-127 | 0 | 0-20 | |
| Toluene | ND | 50.00 | 49.06 | 98 | 47.62 | 95 | 72-126 | 3 | 0-20 | |
| Trichloroethene | ND | 50.00 | 46.76 | 94 | 45.72 | 91 | 74-122 | 2 | 0-20 | |
| Vinyl Chloride | ND | 50.00 | 51.12 | 102 | 50.87 | 102 | 65-131 | 1 | 0-24 | |
| Methyl-t-Butyl Ether (MTBE) | ND | 50.00 | 42.92 | 86 | 42.00 | 84 | 69-123 | 2 | 0-20 | |

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: 05/11/12
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: SRL 524M-TCP

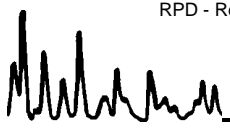
Project Raytheon Main / 532.30

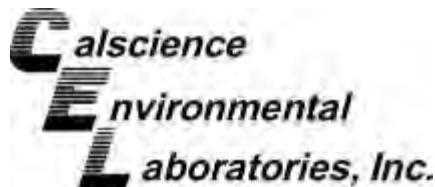
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|---------------------|
| 12-05-1388-5 | Aqueous | GC/MS M | 05/22/12 | 05/23/12 | 120522S01 |

| Parameter | SAMPLE CONC | SPIKE ADDED | MS CONC | MS %REC | MSD CONC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|------------------------|-------------|-------------|---------|---------|----------|----------|---------|-----|--------|------------|
| 1,2,3-Trichloropropane | ND | 0.02000 | 0.01160 | 58 | 0.01100 | 55 | 80-120 | 5 | 0-20 | 3 |
| 1,4-Dioxane | 88.91 | 20.00 | 99.85 | 55 | 111.1 | 111 | 80-120 | 11 | 0-20 | 3 |

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RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Hargis + Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego, CA 92122-6215

Date Received: N/A
Work Order No: 12-05-0853
Preparation: EPA 5030C
Method: EPA 8260B

Project: Raytheon Main / 532.30

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | | |
|-----------------------------|--------------------|-----------------|-----------------|------------------|-----------------------|----------------|--------------|------------|---------------|-------------------|
| 099-14-001-7,779 | Aqueous | GC/MS CC | 05/12/12 | 05/12/12 | 120512L01 | | | | | |
| Parameter | <u>SPIKE ADDED</u> | <u>LCS CONC</u> | <u>LCS %REC</u> | <u>LCSD CONC</u> | <u>LCSD %REC</u> | <u>%REC CL</u> | <u>ME CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| Benzene | 50.00 | 42.62 | 85 | 44.47 | 89 | 80-120 | 73-127 | 4 | 0-20 | |
| Carbon Tetrachloride | 50.00 | 51.26 | 103 | 52.52 | 105 | 66-138 | 54-150 | 2 | 0-20 | |
| Chlorobenzene | 50.00 | 43.46 | 87 | 45.08 | 90 | 80-120 | 73-127 | 4 | 0-20 | |
| 1,2-Dibromoethane | 50.00 | 43.53 | 87 | 45.29 | 91 | 80-120 | 73-127 | 4 | 0-20 | |
| 1,2-Dichlorobenzene | 50.00 | 44.47 | 89 | 45.98 | 92 | 80-120 | 73-127 | 3 | 0-20 | |
| 1,2-Dichloroethane | 50.00 | 44.95 | 90 | 47.22 | 94 | 80-129 | 72-137 | 5 | 0-20 | |
| 1,1-Dichloroethene | 50.00 | 44.00 | 88 | 45.51 | 91 | 71-131 | 61-141 | 3 | 0-20 | |
| Ethylbenzene | 50.00 | 47.08 | 94 | 49.03 | 98 | 80-123 | 73-130 | 4 | 0-20 | |
| Toluene | 50.00 | 45.57 | 91 | 48.20 | 96 | 79-121 | 72-128 | 6 | 0-20 | |
| Trichloroethene | 50.00 | 43.99 | 88 | 47.18 | 94 | 80-120 | 73-127 | 7 | 0-20 | |
| Vinyl Chloride | 50.00 | 43.00 | 86 | 46.52 | 93 | 70-136 | 59-147 | 8 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 50.00 | 41.79 | 84 | 43.88 | 88 | 72-126 | 63-135 | 5 | 0-22 | |

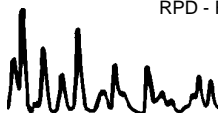
Total number of LCS compounds : 12

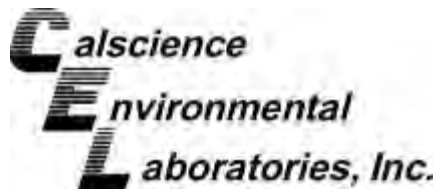
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: N/A
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260B

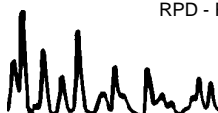
Project: Raytheon Main / 532.30

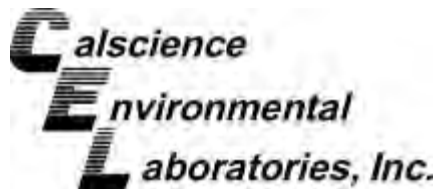
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | | | |
|-----------------------------|--------------------|-----------------|-----------------|------------------|-----------------------|----------------|--------------|------------|---------------|-------------------|
| 099-14-001-7,789 | Aqueous | GC/MS CC | 05/14/12 | 05/14/12 | 120514L01 | | | | | |
| Parameter | <u>SPIKE ADDED</u> | <u>LCS CONC</u> | <u>LCS %REC</u> | <u>LCSD CONC</u> | <u>LCSD %REC</u> | <u>%REC CL</u> | <u>ME CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
| Benzene | 50.00 | 41.46 | 83 | 42.47 | 85 | 80-120 | 73-127 | 2 | 0-20 | |
| Carbon Tetrachloride | 50.00 | 49.10 | 98 | 50.34 | 101 | 66-138 | 54-150 | 2 | 0-20 | |
| Chlorobenzene | 50.00 | 41.84 | 84 | 42.38 | 85 | 80-120 | 73-127 | 1 | 0-20 | |
| 1,2-Dibromoethane | 50.00 | 40.29 | 81 | 41.33 | 83 | 80-120 | 73-127 | 3 | 0-20 | |
| 1,2-Dichlorobenzene | 50.00 | 42.94 | 86 | 42.96 | 86 | 80-120 | 73-127 | 0 | 0-20 | |
| 1,2-Dichloroethane | 50.00 | 44.41 | 89 | 45.18 | 90 | 80-129 | 72-137 | 2 | 0-20 | |
| 1,1-Dichloroethene | 50.00 | 43.00 | 86 | 43.74 | 87 | 71-131 | 61-141 | 2 | 0-20 | |
| Ethylbenzene | 50.00 | 45.03 | 90 | 45.55 | 91 | 80-123 | 73-130 | 1 | 0-20 | |
| Toluene | 50.00 | 44.34 | 89 | 45.52 | 91 | 79-121 | 72-128 | 3 | 0-20 | |
| Trichloroethene | 50.00 | 42.56 | 85 | 44.20 | 88 | 80-120 | 73-127 | 4 | 0-20 | |
| Vinyl Chloride | 50.00 | 45.80 | 92 | 47.78 | 96 | 70-136 | 59-147 | 4 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 50.00 | 41.20 | 82 | 42.04 | 84 | 72-126 | 63-135 | 2 | 0-22 | |

Total number of LCS compounds : 12
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: N/A
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260 SIM

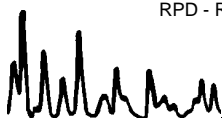
Project: Raytheon Main / 532.30

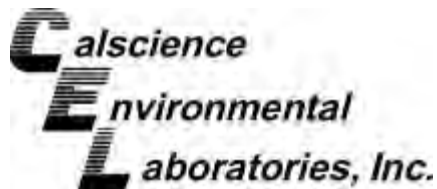
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-15-118-9 | Aqueous | GC/MS M | 05/22/12 | 05/22/12 | 120522L01 |

| Parameter | SPIKE ADDED | LCS CONC | LCS %REC | LCSD CONC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|------------------------|-------------|----------|----------|-----------|-----------|---------|-----|--------|------------|
| 1,2,3-Trichloropropane | 0.02000 | 0.02310 | 116 | 0.01940 | 97 | 80-120 | 17 | 0-20 | |
| 1,4-Dioxane | 20.00 | 18.90 | 94 | 19.83 | 99 | 80-120 | 5 | 0-20 | |

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Hargis + Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego, CA 92122-6215

Date Received: N/A
 Work Order No: 12-05-0853
 Preparation: EPA 5030C
 Method: EPA 8260 SIM

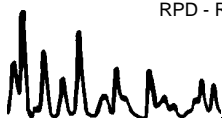
Project: Raytheon Main / 532.30

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-15-118-10 | Aqueous | GC/MS M | 05/22/12 | 05/23/12 | 120522L02 |

| Parameter | SPIKE ADDED | LCS CONC | LCS %REC | LCSD CONC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|------------------------|-------------|----------|----------|-----------|-----------|---------|-----|--------|------------|
| 1,2,3-Trichloropropane | 0.02000 | 0.01870 | 94 | 0.01850 | 92 | 80-120 | 1 | 0-20 | |
| 1,4-Dioxane | 20.00 | 21.22 | 106 | 22.91 | 115 | 80-120 | 8 | 0-20 | |

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-05-0853

| <u>Qualifier</u> | <u>Definition</u> |
|------------------|--|
| * | See applicable analysis comment. |
| < | Less than the indicated value. |
| > | Greater than the indicated value. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification. |
| 4 | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification. |
| 5 | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification. |
| 6 | Surrogate recovery below the acceptance limit. |
| 7 | Surrogate recovery above the acceptance limit. |
| B | Analyte was present in the associated method blank. |
| BU | Sample analyzed after holding time expired. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| HD | The chromatographic pattern was inconsistent with the profile of the reference fuel standard. |
| HDH | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected). |
| HDL | The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected). |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| ME | LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range. |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| SG | The sample extract was subjected to Silica Gel treatment prior to analysis. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

MPN - Most Probable Number



CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

DATE 5/10/12 PAGE 1 OF 1

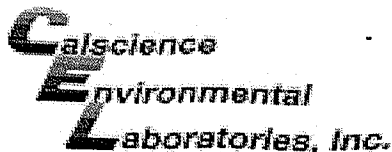
HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY - ENGINEERING

| PROJECT NAME <i>Raytheon Main</i> | | PROJECT No./TASK No. <i>532.30</i> | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAS | | SPECIAL HANDLING | | LABORATORY INFORMATION | |
|--|-------------------|---|------------------------------------|-------------------|------------------------|---|--------------|--|------|---|--|--|-------|
| PROJECT MANAGER <i>Steve Netto</i> | | Phone No. <i>858-455-6500</i> | | | | | | | | | | <i>CalScience</i> ATTN: <i>Virendra</i> | |
| QA MANAGER | | Fax No. <i>858-455-6533</i> | | | | | | | | | | | |
| SAMPLER (SIGNATURE) <i>Amanda Beam</i> | | SAMPLER (PRINTED) <i>Daniel Mora</i> <i>Amanda Beam</i> | | | | | | | | | | 12-05-0853 | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | | PRESERVATION | | | REMARKS | | | |
| | | Date | Time | Soil | Ground Water | Surface Water | LAB H2O | HCl | HNO3 | | | NaOH | H2SO4 |
| | | | | | | | | | | | | | |
| <i>1</i> | <i>TB-051012C</i> | <i>5/10/12</i> | <i>700</i> | | | <i>X</i> | <i>X</i> | | | <i>X</i> | | | |
| <i>2</i> | <i>MW-34B</i> | <i>↓</i> | <i>1055</i> | <i>X</i> | | | <i>X</i> | | | | | | |
| | <i>MW-34B</i> | <i>↓</i> | <i>1055</i> | <i>X</i> | | | | | | | | | |
| <i>3</i> | <i>MW-29</i> | <i>5/11/12</i> | <i>816</i> | <i>X</i> | | <i>X</i> | | | | | | | |
| | <i>MW-29</i> | <i>↓</i> | <i>816</i> | <i>X</i> | | | | | | | | | |
| Total number of Containers per analysis: <i>82</i> | | | | | | | | | | Total No. of Containers: <i>10</i> | | | |
| Relinquished by: <i>Amanda Beam</i> | | Date <i>5/11/12</i> | Received by: <i>[Signature]</i> | | Date <i>5/11/12</i> | 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. | | | | Shipment Method: <i>Courier pickup</i> Send Results to: <i>Steve Netto</i> <input checked="" type="checkbox"/> 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500 <input type="checkbox"/> 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888 <input type="checkbox"/> 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300 | | | |
| HFA Inc Company | | Time <i>10:40</i> | CALSCIENCE Company | | Time <i>10:40</i> | | | | | | | | |
| Relinquished by: <i>[Signature]</i> | | Date <i>5/11/12</i> | Received by: <i>DANNY</i> | | Date <i>5/11/12</i> | Sample Receipt: <input type="checkbox"/> No. of containers correct <input type="checkbox"/> custody seals secure Temp. @ receipt _____ °C <input type="checkbox"/> received good condition/cold <input type="checkbox"/> conforms to COC document | | | | Send invoice to San Diego, CA Attn: Accounts Payable | | | |
| CALSCIENCE Company | | Time <i>13:00</i> | Company | | Time <i>13:20</i> | | | | | | | | |

ORIGINAL: [Arrow] LABORATORY YELLOW: QA MANAGER PINK: FIELD/TASK MANAGER

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

| PROJECT NAME <i>Raytheon main</i> | | PROJECT No./TASK No. <i>532.30</i> | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAs | | SPECIAL HANDLING | | LABORATORY INFORMATION | |
|---|-------------------|---|------------------------------------|-------------------|------------------------|--|-----------|--|------------------|--|--------------------------------|--|--|
| PROJECT MANAGER <i>Steve Netto</i> | | Phone No. <i>858-455-6500</i> | | | | | | | | | | <i>CalScience</i> <i>ATTN:</i> <i>Virendra</i> | |
| QA MANAGER | | Fax No. <i>858-455-6533</i> | | | | | | | | | | | |
| SAMPLER (SIGNATURE) <i>Amanda Beam</i> | | SAMPLER (PRINTED) <i>Daniel Mora</i> <i>Amanda Beam</i> | | | | | | | | | | 12-05-0853 | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | PRESERVATION | | | | | | | |
| | | Date | Time | Soil | Ground water | Surface water | LAB FIELD | HCl | HNO ₃ | NaOH | H ₂ SO ₄ | Ice | |
| | | | | | | | | | | | | | |
| <i>1</i> | <i>TB-051012C</i> | <i>5/10/12</i> | <i>700</i> | | | <i>X</i> | <i>X</i> | | | | <i>X</i> | | |
| <i>2</i> | <i>MW-34B</i> | <i>↓</i> | <i>1055</i> | <i>X</i> | | | <i>X</i> | | | | <i>X</i> | | |
| | <i>MW-34B</i> | <i>↓</i> | <i>1055</i> | <i>X</i> | | | | | | | <i>X</i> | | |
| <i>3</i> | <i>MW-29</i> | <i>5/11/12</i> | <i>816</i> | <i>X</i> | | <i>X</i> | | | | | <i>X</i> | | |
| | <i>MW-29</i> | <i>↓</i> | <i>816</i> | <i>X</i> | | | | | | | <i>X</i> | | |
| Total number of Containers per analysis: | | | | <i>82</i> | | | | Total No. of Containers: <i>10</i> | | | | | |
| Relinquished by: <i>Amanda Beam</i> | | Date <i>5/11/12</i> | Received by: <i>[Signature]</i> | | Date <i>5/11/12</i> | 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. | | | | Shipment Method: <i>Courier pickup</i> | | | |
| Company <i>H+A Inc</i> | | Time <i>10:40</i> | Company <i>CALSCIENCE</i> | | Time <i>10:40</i> | | | | | <input checked="" type="checkbox"/> 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500 <input type="checkbox"/> 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888 <input type="checkbox"/> 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300 | | | |
| Relinquished by: <i>[Signature]</i> | | Date <i>5/11/12</i> | Received by: <i>DANUGLE</i> | | Date <i>5/11/12</i> | Sample Receipt: <input type="checkbox"/> No. of containers correct <input type="checkbox"/> custody seals secure Temp. @ receipt _____ °C <input type="checkbox"/> received good condition/cold <input type="checkbox"/> conforms to COC document | | | | Send invoice to San Diego, CA Attn: Accounts Payable | | | |
| Company <i>CALSCIENCE</i> | | Time <i>13:00</i> | Company <i>[Signature]</i> | | Time <i>13:00</i> | | | | | | | | |



WORK ORDER #: 12-05-0853

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: HARGIS + ASSOCIATES, INC.

DATE: 05/11/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.0 °C - 0.3°C (CF) = 2.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: PS

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: PS

Sample _____ No (Not Intact) Not Present Initial: PS

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBzanna 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: 120427A Labeled/Checked by: PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WJC

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure zanna: ZnAc₂+NaOH f: Filtered Scanned by: PS



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

May 31, 2012

Hargis+Associates Inc
9171 Towne Centre Dr
Ste 375
San Diego, CA 92122

Exova Job No: 139654
Purchase Order: 532.30
Project Name: Raytheon
Samples Received: Ten (10) Sample(s)
Date Received: 05/11/2012

Attn: Steve Netto

RGC

Analysis

Page

Volatile Organics by EPA 624/8260B
1,4-Dioxane by Modified EPA 8270

2 - 8
9

Michael Shelton
Technical Director

Patricia Metzger
Senior Chemist

Volatile Organics by EPA 624/8260B

Sample: MW-29

Parts Per Billion (µg/L)

| <u>Compound</u> | <u>Result</u> | <u>Detection Limit</u> | <u>Blank Result</u> | <u>Detection Limit</u> |
|-----------------------------|---------------|------------------------|---------------------|------------------------|
| 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 | 10 | 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 | 1 | 1 | ND | 1 |
| 1,1-Dichloroethylene | 550 | 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 |

Volatile Organics by EPA 624/8260B

Sample: MW-29 (continued)

| Compound | Parts Per Billion (µg/L) | | | |
|---------------------------|--------------------------|-----------------|--------------|-----------------|
| | 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: 05-16-12

Date analyzed: 05-16-12

| Surrogate | QC Limits | Sample Percent Recovery | Blank Percent Recovery |
|-----------------------------------|-----------|-------------------------|------------------------|
| Dibromofluoromethane | 75-125 | 96 | 97 |
| 1,2-Dichloroethane-d ₄ | 82-121 | 90 | 93 |
| Toluene-d ₈ | 87-110 | 103 | 104 |
| Bromofluorobenzene | 76-113 | 112 | 116** |

* Surrogate recovery was outside control limits. All surrogate recoveries in the sample are within control limits; no action taken.

Volatile Organics by EPA 624/8260B

Sample: MW-34B

| Compound | Parts Per Billion (µg/L) | | | |
|-----------------------------|--------------------------|-----------------|--------------|-----------------|
| | 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 | 1 | 1 | ND | 1 |
| 1,2-Dichloroethane | ND | 1 | ND | 1 |
| 1,1-Dichloroethylene | 120 | 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 |

Volatile Organics by EPA 624/8260B

Sample: MW-34B (continued)

| <u>Compound</u> | Parts Per Billion (µg/L) | | | |
|---------------------------|--------------------------|------------------------|---------------------|------------------------|
| | <u>Result</u> | <u>Detection Limit</u> | <u>Blank Result</u> | <u>Detection Limit</u> |
| 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: 05-16-12

Date analyzed: 05-16-12

| <u>Surrogate</u> | <u>QC Limits</u> | <u>Sample Percent Recovery</u> | <u>Blank Percent Recovery</u> |
|-----------------------------------|------------------|--------------------------------|-------------------------------|
| Dibromofluoromethane | 75-125 | 96 | 97 |
| 1,2-Dichloroethane-d ₄ | 82-121 | 91 | 93 |
| Toluene-d ₈ | 87-110 | 102 | 104 |
| Bromofluorobenzene | 76-113 | 112 | 116** |

* Surrogate recovery was outside control limits. All surrogate recoveries in the sample are within control limits; no action taken.

Volatile Organics by EPA 624/8260B

Sample: TB-051012B

| Compound | Parts Per Billion (µg/L) | | | |
|-----------------------------|--------------------------|-----------------|--------------|-----------------|
| | 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 |

Volatile Organics by EPA 624/8260B

Sample: TB-051012B (continued)

Parts Per Billion (µg/L)

| <u>Compound</u> | <u>Result</u> | <u>Detection Limit</u> | <u>Blank Result</u> | <u>Detection Limit</u> |
|---------------------------|---------------|------------------------|---------------------|------------------------|
| 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: 05-16-12

Date analyzed: 05-16-12

| <u>Surrogate</u> | <u>QC Limits</u> | <u>Sample Percent Recovery</u> | <u>Blank Percent Recovery</u> |
|-----------------------------------|------------------|--------------------------------|-------------------------------|
| Dibromofluoromethane | 75-125 | 93 | 97 |
| 1,2-Dichloroethane-d ₄ | 82-121 | 86 | 93 |
| Toluene-d ₈ | 87-110 | 104 | 104 |
| Bromofluorobenzene | 76-113 | 109 | 116** |

* Surrogate recovery was outside control limits. All surrogate recoveries in the sample are within control limits; no action taken.

Quality Control Summary

Batch ID: 051612WV

| <u>Compound</u> | <u>Sample Result</u> | <u>Spike Conc</u> | <u>Spike Result</u> | <u>Spike % Rec</u> | <u>Spike Dup Result</u> | <u>Spike Dup % Rec</u> | <u>Spike RPD</u> |
|----------------------|----------------------|-------------------|---------------------|--------------------|-------------------------|------------------------|------------------|
| Benzene | ND | 50.0 | 49.4 | 99 | 49.2 | 98 | 0 |
| Chlorobenzene | ND | 50.0 | 48.9 | 98 | 48.8 | 98 | 0 |
| 1,1-Dichloroethylene | ND | 50.0 | 50.7 | 101 | 50.6 | 101 | 0 |
| Toluene | 387 | 50.0 | 449 | NR | 451 | NR | 0 |
| Trichloroethylene | ND | 50.0 | 48.5 | 97 | 47.9 | 96 | 1 |

NR - Not Reported; the sample result exceeds the amount spiked. Analysis of a Laboratory Fortified Blank gave acceptable recoveries for toluene.

Sample ID: Method Blank

| <u>Compound</u> | <u>Sample Result</u> | <u>Spike Conc</u> | <u>Spike Result</u> | <u>Spike % Rec</u> |
|-----------------|----------------------|-------------------|---------------------|--------------------|
| Toluene | ND | 50.0 | 53.3 | 107 |

Quality Control Limits

| <u>Compound</u> | <u>% Recovery</u> | <u>RPD</u> |
|----------------------|-------------------|------------|
| Benzene | 77-127 | 10 |
| Chlorobenzene | 80-116 | 9 |
| 1,1-Dichloroethylene | 66-125 | 11 |
| Toluene | 81-118 | 10 |
| Trichloroethylene | 72-119 | 11 |

1,4-Dioxane by Modified EPA 8270
 Gas Chromatography/Mass Spectrometry

| <u>Sample ID</u> | <u>Parts Per Billion (µg/L)</u> |
|------------------|---------------------------------|
| MW-29 | 300 |
| MW-34B | 63 |
| Method Blank | ND |

Detection Limit 1

Date Extracted: 05-16-12

Dates Analyzed: 05-29-12

Quality Control Summary

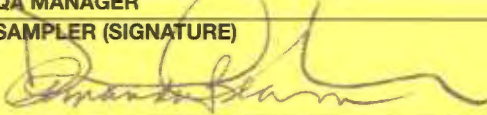
Sample ID: 051612WO

| <u>Analyte</u> | <u>Sample Result</u> | <u>Spike Conc</u> | <u>Spike Result</u> | <u>Spike % Rec</u> | <u>Spike Duplicate Result</u> | <u>Spike Duplicate % Rec</u> | <u>Spike RPD</u> |
|----------------|----------------------|-------------------|---------------------|--------------------|-------------------------------|------------------------------|------------------|
| 1,4-Dioxane | ND | 20.0 | 20.8 | 104 | 21.4 | 107 | 3 |

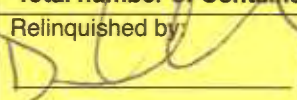
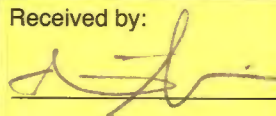
Quality Control Guidelines

| <u>Analyte</u> | <u>% Recovery</u> | <u>RPD</u> |
|----------------|-------------------|------------|
| 1,4-Dioxane | 85 - 113 | NMT 11 |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

| PROJECT NAME <u>Raytheon</u> | | PROJECT No./TASK No. <u>532.30</u> | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOAs | | SPECIAL HANDLING | | LABORATORY INFORMATION | | | | | | |
|--|---------------------|--|-------------|---------------------------------------|----------------------|--------------------|------------------|--|--------------------------------|------------------|-----------|------------------------|------------|----------------------|--|----------------------------------|---------|--|
| PROJECT MANAGER <u>Steve Netto</u> | | Phone No. <u>858-455-6500</u> | | | | | | | | | | <u>EXOVA</u> | | | | | | |
| QA MANAGER | | Fax No. <u>858-455-6533</u> | | | | | | | | | | | | | | | | |
| SAMPLER (SIGNATURE)  | | SAMPLER (PRINTED) <u>Dan Mora</u> <u>Amanda Beam</u> | | | | | | | | | | | | | | | | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | PRESERVATION | | | | | 40 ml VOA | 1L Amber | VOCs 8260B | 1,4-Dioxane 8270 MOD | 0-10 10-100 100-1,000 1,000-10,000 >10,000 | 24 TAT 48 TAT Standard TAT | REMARKS | |
| | | Date | Time | Soil Ground water Surface water | LAB H ₂ O | HCl | HNO ₃ | NaOH | H ₂ SO ₄ | Ice | | | | | | | | |
| | <u>N TB-051012B</u> | <u>5/10/12</u> | <u>700</u> | | | X | X | | | X | | | | | X | | | |
| | <u>MW-34B</u> | | <u>1055</u> | X | | X | | | | X | | | | | | X | | |
| | <u>MW-34B</u> | | <u>1055</u> | X | | | | | | X | | | | | | X | | |
| | <u>MW-29</u> | <u>5/11/12</u> | <u>816</u> | X | | X | | | | X | | | | | X | | | |
| | <u>MW-29</u> | | <u>816</u> | X | | | | | | X | | | | | | X | | |

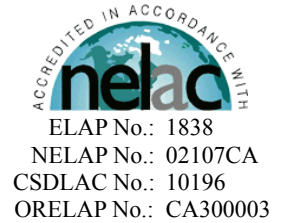
Total number of Containers per analysis: 8 2 Total No. of Containers: 10

| | | | | | | | |
|---|--|----------------------|--|----------------------|--|--|--|
| Relinquished by:  | | Date: <u>5/10/12</u> | Received by: | Date: | 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. | Shipment Method: <u>DROP OFF</u> | |
| Company: <u>H+A</u> | | Time: <u>1133</u> | Company: | Time: | | Send Results to: <u>Steve Netto</u> | |
| Relinquished by: | | Date: | Received by:  | Date: <u>5-11-12</u> | Sample Receipt: <input type="checkbox"/> No. of containers correct <input type="checkbox"/> custody seals secure <input checked="" type="checkbox"/> Temp. @ receipt <u>6</u> °C <input type="checkbox"/> received good condition/cold <input type="checkbox"/> conforms to COC document | <input checked="" type="checkbox"/> 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500 <input type="checkbox"/> 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888 <input type="checkbox"/> 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300 | |
| Company: | | Time: | Company: <u>EXOVA</u> | Time: <u>4:11:33</u> | | Send invoice to San Diego, CA Attn: Accounts Payable | |

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM ANALYTICAL RESULTS

May 01, 2012

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 : 1201389
Client Reference : RAYTHEON FULLERTON-MONTHLY, 532.15

Enclosed are the results for sample(s) received on April 16, 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,

A handwritten signature in black ink, appearing to read "E Rodriguez".

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 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

SUMMARY OF SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|-------------|---------------|---------------|
| TB-041612 | 1201389-01 | Lab H2O | 4/16/12 8:00 | 4/16/12 12:24 |
| EW-02 | 1201389-02 | Groundwater | 4/16/12 10:12 | 4/16/12 12:24 |
| PF | 1201389-03 | Groundwater | 4/16/12 9:00 | 4/16/12 12:24 |
| POX | 1201389-04 | Groundwater | 4/16/12 9:10 | 4/16/12 12:24 |
| CBT | 1201389-05 | Groundwater | 4/16/12 9:27 | 4/16/12 12:24 |
| CEFF | 1201389-06 | Groundwater | 4/16/12 9:37 | 4/16/12 12:24 |

CASE NARRATIVE

The samples for EPA 317 (Bromate) analysis were subcontracted to Exova, Inc. with ELAP Cert.# 2652.



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Client Sample ID TB-041612

Lab ID: 1201389-01

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 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Benzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Bromoform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Chloroform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/01/2012

Client Sample ID TB-041612

Lab ID: 1201389-01

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 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Styrene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Toluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 11:32 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>91.9 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 11:32</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>93.4 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 11:32</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>93.6 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 11:32</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>97.3 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 11:32</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Client Sample ID EW-02

Lab ID: 1201389-02

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 | 0.19 | 0.05 | NA | 1 | B2D0667 | 04/18/2012 | 04/18/12 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 | 620 | 10 | NA | 1 | B2D0680 | 04/17/2012 | 04/18/12 07:04 | |

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D

Analyst: PT

| Analyte | Result (mg/L) | PQL (mg/L) | MDL (mg/L) | Dilution | Batch | Prepared | Date/Time Analyzed | Notes |
|--------------------|------------------|---------------|---------------|----------|---------|------------|-----------------------|-------|
| Residue, Suspended | ND | 10 | NA | 1 | B2D0653 | 04/17/2012 | 04/18/12 07:00 | |

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 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,1-Dichloroethene | 45 | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/01/2012

Client Sample ID EW-02
Lab ID: 1201389-02

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 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Benzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Bromoform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Chloroform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| cis-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Styrene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |



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9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/01/2012

Client Sample ID EW-02
Lab ID: 1201389-02

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 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Toluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:28 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>98.7 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 15:28</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>94.2 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 15:28</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>99.0 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 15:28</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>100 %</i> | | <i>70 - 130</i> | | B2D0584 | 04/17/2012 | <i>04/17/12 15:28</i> | |

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 | 14 | 2.0 | NA | 1 | B2D0636 | 04/18/2012 | 04/18/12 23:12 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>88.1 %</i> | | <i>37 - 93</i> | | B2D0636 | 04/18/2012 | <i>04/18/12 23:12</i> | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>96.2 %</i> | | <i>51 - 100</i> | | B2D0636 | 04/18/2012 | <i>04/18/12 23:12</i> | |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>128 %</i> | | <i>58 - 113</i> | | B2D0636 | 04/18/2012 | <i>04/18/12 23:12</i> | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>84.5 %</i> | | <i>39 - 95</i> | | B2D0636 | 04/18/2012 | <i>04/18/12 23:12</i> | |



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9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Client Sample ID PF

Lab ID: 1201389-03

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D

Analyst: PT

| Analyte | Result (mg/L) | PQL (mg/L) | MDL (mg/L) | Dilution | Batch | Prepared | Date/Time Analyzed | Notes |
|--------------------|------------------|---------------|---------------|----------|---------|------------|-----------------------|-------|
| Residue, Suspended | ND | 10 | NA | 1 | B2D0653 | 04/17/2012 | 04/18/12 07:00 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Client Sample ID POX

Lab ID: 1201389-04

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 | 0.19 | 0.05 | NA | 1 | B2D0667 | 04/18/2012 | 04/18/12 09:48 | |

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 | B2D0680 | 04/17/2012 | 04/18/12 07:06 | |

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 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Client Sample ID POX

Lab ID: 1201389-04

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 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Benzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Bromoform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Chloroform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| cis-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Styrene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Toluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |



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Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/01/2012

Client Sample ID POX
Lab ID: 1201389-04

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 |
|---|------------------|---------------|---------------|----------|---------|------------|-----------------------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 98.5 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 98.2 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| <i>Surrogate: Dibromofluoromethane</i> | 101 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |
| <i>Surrogate: Toluene-d8</i> | 104 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 14:28 | |

1,4-Dioxane by EPA 8270/SIM: Isotope Dilution Technique

Analyst: MR

| Analyte | Result (ug/L) | PQL (ug/L) | MDL (ug/L) | Dilution | Batch | Prepared | Date/Time Analyzed | Notes |
|--|------------------|---------------|---------------|----------|---------|------------|-----------------------|-------|
| 1,4-Dioxane | 0.27 | 0.20 | NA | 1 | B2D0744 | 04/20/2012 | 04/20/12 20:44 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 95.4 % | 36 - 107 | | | B2D0744 | 04/20/2012 | 04/20/12 20:44 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 89.8 % | 42 - 120 | | | B2D0744 | 04/20/2012 | 04/20/12 20:44 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 99.8 % | 67 - 142 | | | B2D0744 | 04/20/2012 | 04/20/12 20:44 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 100 % | 36 - 130 | | | B2D0744 | 04/20/2012 | 04/20/12 20:44 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Client Sample ID CBT

Lab ID: 1201389-05

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 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,1-Dichloroethane | 0.73 | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Benzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Bromoform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Chloroform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

Client Sample ID CBT
Lab ID: 1201389-05

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 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Styrene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Toluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 14:48 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>100 %</i> | <i>70 - 130</i> | | | B2D0584 | 04/17/2012 | <i>04/17/12 14:48</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>100 %</i> | <i>70 - 130</i> | | | B2D0584 | 04/17/2012 | <i>04/17/12 14:48</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>103 %</i> | <i>70 - 130</i> | | | B2D0584 | 04/17/2012 | <i>04/17/12 14:48</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>106 %</i> | <i>70 - 130</i> | | | B2D0584 | 04/17/2012 | <i>04/17/12 14:48</i> | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

Client Sample ID CEFF
Lab ID: 1201389-06

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 | 0.21 | 0.05 | NA | 1 | B2D0667 | 04/18/2012 | 04/18/12 09:59 | |

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 | 660 | 10 | NA | 1 | B2D0680 | 04/17/2012 | 04/18/12 07:08 | |

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 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,1-Dichloroethane | 1.2 | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/01/2012

Client Sample ID CEFF
Lab ID: 1201389-06

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 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Benzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Bromoform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Chloroform | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| cis-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Styrene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Toluene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |



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San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/01/2012

Client Sample ID CEFF
Lab ID: 1201389-06

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 |
|---|------------------|---------------|---------------|----------|---------|------------|-----------------------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 97.0 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 92.5 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| <i>Surrogate: Dibromofluoromethane</i> | 99.6 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |
| <i>Surrogate: Toluene-d8</i> | 101 % | 70 - 130 | | | B2D0584 | 04/17/2012 | 04/17/12 15:08 | |



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Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

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 | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2D0667 - No_Prep_IC_1

| | | | | | | | | | |
|--|------|---------------------------|------|------|-----|----------|---|----|--|
| Blank (B2D0667-BLK1) | | | | | | | Prepared: 4/18/2012 Analyzed: 4/18/2012 | | |
| Bromide | ND | 0.05 | | | | NR | | | |
| LCS (B2D0667-BS1) | | | | | | | Prepared: 4/18/2012 Analyzed: 4/18/2012 | | |
| Bromide | 0.95 | 0.05 | 1.00 | | 95 | 90 - 110 | | | |
| Matrix Spike (B2D0667-MS1) | | Source: 1201391-01 | | | | | Prepared: 4/18/2012 Analyzed: 4/18/2012 | | |
| Bromide | 2.6 | | 2.50 | ND | 105 | 80 - 120 | | | |
| Matrix Spike (B2D0667-MS2) | | Source: 1201423-01 | | | | | Prepared: 4/18/2012 Analyzed: 4/18/2012 | | |
| Bromide | 2.6 | | 2.50 | 0.01 | 102 | 80 - 120 | | | |
| Matrix Spike Dup (B2D0667-MSD1) | | Source: 1201391-01 | | | | | Prepared: 4/18/2012 Analyzed: 4/18/2012 | | |
| Bromide | 2.6 | | 2.50 | ND | 102 | 80 - 120 | 2 | 20 | |
| Matrix Spike Dup (B2D0667-MSD2) | | Source: 1201423-01 | | | | | Prepared: 4/18/2012 Analyzed: 4/18/2012 | | |
| Bromide | 2.6 | | 2.50 | 0.01 | 103 | 80 - 120 | 0.6 | 20 | |



Hargis & Associates, Inc.
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Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

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 B2D0680 - No_Prep_WC_1

Blank (B2D0680-BLK1)

Prepared: 4/17/2012 Analyzed: 4/18/2012

Residue, Dissolved

ND

10

NR

LCS (B2D0680-BS1)

Prepared: 4/17/2012 Analyzed: 4/18/2012

Residue, Dissolved

1000

10

970

104

80 - 120

Duplicate (B2D0680-DUP1)

Source: 1201334-01

Prepared: 4/17/2012 Analyzed: 4/18/2012

Residue, Dissolved

500

10

510

NR

2

10



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

Total Suspended Solids (Residue, Non-Filtrable) by SM 2540D - Quality Control

| Analyte | Result (mg/L) | PQL (mg/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2D0653 - No_Prep_WC_1

Blank (B2D0653-BLK1)

Prepared: 4/17/2012 Analyzed: 4/18/2012

Residue, Suspended

ND

10

NR

LCS (B2D0653-BS1)

Prepared: 4/17/2012 Analyzed: 4/18/2012

Residue, Suspended

88

10

96.6

91

80 - 120

Duplicate (B2D0653-DUP1)

Source: 1201355-01

Prepared: 4/17/2012 Analyzed: 4/18/2012

Residue, Suspended

230

10

240

NR

3

10



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

Volatile Organic Compounds by EPA 8260 - Quality Control

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2D0584 - MSVOAW_LL

Blank (B2D0584-BLK1)

Prepared: 4/17/2012 Analyzed: 4/17/2012

| | | | | | | | | | |
|-----------------------------|----|------|--|--|----|--|--|--|--|
| 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 | | | | |
| 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 | | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2D0584 - MSVOAW_LL (continued)

Blank (B2D0584-BLK1) - Continued

Prepared: 4/17/2012 Analyzed: 4/17/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|--|--|----|--|
| 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 | | 100 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 26 | | 25.0 | | 105 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 26 | | 25.0 | | 104 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 27 | | 25.0 | | 109 | 70 - 130 | | | |

LCS (B2D0584-BS1)

Prepared: 4/17/2012 Analyzed: 4/17/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 17 | 0.50 | 20.0 | | 85.0 | 70 - 130 | | | |
| Benzene | 34 | 0.50 | 40.0 | | 85.8 | 70 - 130 | | | |
| Chlorobenzene | 20 | 0.50 | 20.0 | | 101 | 70 - 130 | | | |
| MTBE | 19 | 0.50 | 20.0 | | 96.7 | 70 - 130 | | | |
| Toluene | 39 | 0.50 | 40.0 | | 97.0 | 70 - 130 | | | |
| Trichloroethene | 19 | 0.50 | 20.0 | | 94.2 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 22 | | 25.0 | | 87.9 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 23 | | 25.0 | | 90.2 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 22 | | 25.0 | | 87.2 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 22 | | 25.0 | | 89.4 | 70 - 130 | | | |

LCS Dup (B2D0584-BSD1)

Prepared: 4/17/2012 Analyzed: 4/17/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|-------|----|--|
| 1,1-Dichloroethene | 17 | 0.50 | 20.0 | | 83.8 | 70 - 130 | 1.42 | 20 | |
| Benzene | 35 | 0.50 | 40.0 | | 86.9 | 70 - 130 | 1.27 | 20 | |
| Chlorobenzene | 20 | 0.50 | 20.0 | | 101 | 70 - 130 | 0.198 | 20 | |
| MTBE | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | 3.80 | 20 | |
| Toluene | 39 | 0.50 | 40.0 | | 98.4 | 70 - 130 | 1.43 | 20 | |
| Trichloroethene | 19 | 0.50 | 20.0 | | 96.7 | 70 - 130 | 2.57 | 20 | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 21 | | 25.0 | | 85.6 | 70 - 130 | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego, CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

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 B2D0584 - MSVOAW_LL (continued)

LCS Dup (B2D0584-BSD1) - Continued

Prepared: 4/17/2012 Analyzed: 4/17/2012

| | | | | | | | | | |
|--|----|--|------|--|------|----------|--|--|--|
| <i>Surrogate: 4-Bromofluorobenzene</i> | 22 | | 25.0 | | 88.3 | 70 - 130 | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 21 | | 25.0 | | 85.5 | 70 - 130 | | | |
| <i>Surrogate: Toluene-d8</i> | 22 | | 25.0 | | 88.5 | 70 - 130 | | | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2D0636 - MSEMI_ISOTOPEDILN

Blank (B2D0636-BLK1)

Prepared: 4/18/2012 Analyzed: 4/18/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|----|
| 1,4-Dioxane | ND | 2.0 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 86 | | 100 | | 85.5 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 91 | | 100 | | 90.8 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 120 | | 100 | | 123 | 58 - 113 | | | S1 |
| Surrogate: Nitrobenzene-d5 | 87 | | 100 | | 86.7 | 39 - 95 | | | |

LCS (B2D0636-BS1)

Prepared: 4/18/2012 Analyzed: 4/18/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|--|
| 1,4-Dioxane | 100 | 2.0 | 100 | | 105 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 82 | | 100 | | 81.8 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 85 | | 100 | | 84.7 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 100 | | 100 | | 102 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 81 | | 100 | | 80.8 | 39 - 95 | | | |

LCS Dup (B2D0636-BSD1)

Prepared: 4/18/2012 Analyzed: 4/18/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|------|----|--|
| 1,4-Dioxane | 110 | 2.0 | 100 | | 106 | 70 - 130 | 1.83 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 78 | | 100 | | 78.1 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 87 | | 100 | | 86.7 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 99 | | 100 | | 99.2 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 80 | | 100 | | 80.0 | 39 - 95 | | | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/01/2012

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 | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2D0744 - MSEMI_ISOTOPEDILN

Blank (B2D0744-BLK1)

Prepared: 4/20/2012 Analyzed: 4/20/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | ND | 0.20 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.99 | | 1.00 | | 98.6 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.91 | | 1.00 | | 90.6 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 1.0 | | 1.00 | | 103 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 1.1 | | 1.00 | | 107 | 36 - 130 | | | |

LCS (B2D0744-BS1)

Prepared: 4/20/2012 Analyzed: 4/20/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | 1.2 | 0.20 | 1.00 | | 119 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 1.0 | | 1.00 | | 101 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.92 | | 1.00 | | 91.8 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.97 | | 1.00 | | 96.7 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 1.1 | | 1.00 | | 112 | 36 - 130 | | | |

LCS Dup (B2D0744-BSD1)

Prepared: 4/20/2012 Analyzed: 4/20/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|------|----|--|
| 1,4-Dioxane | 1.1 | 0.20 | 1.00 | | 108 | 70 - 130 | 9.54 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.96 | | 1.00 | | 95.5 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.84 | | 1.00 | | 84.4 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.96 | | 1.00 | | 96.1 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 1.0 | | 1.00 | | 102 | 36 - 130 | | | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/01/2012

Notes and Definitions

| | |
|-----|---|
| S8 | Surrogate recovery was above laboratory acceptance limit. See CAR for details. |
| S1 | Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the 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) |

Bromate by EPA 317
 Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column: Dionex AS9-HC/AG9-HSC
 Eluent: 30 mM Na₂CO₃
 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)

| <u>Sample ID</u> | <u>Result</u> | <u>Detection Limit</u> |
|--------------------|---------------|------------------------|
| 1201389-02 / EW-02 | ND | 0.5 |
| 1201389-04 / POX | 6 | 5 |
| 1201389-06 / CEFF | 7.1 | 0.5 |
| Method Blank | ND | 0.5 |

Date Analyzed: 04-30-12

Quality Control Summary

Sample ID: 1201389-06 / CEFF

| <u>Analyte</u> | <u>Sample Result</u> | <u>Spike Conc</u> | <u>Spike Result</u> | <u>Spike % Rec</u> | <u>Spike Duplicate Result</u> | <u>Spike Duplicate % Rec</u> | <u>Spike RPD</u> |
|----------------|----------------------|-------------------|---------------------|--------------------|-------------------------------|------------------------------|------------------|
| | 7.1 | 11.1 | 18.3 | 101 | 18.2 | 100 | 1 |
| QC Guidelines | | | | 75 - 125 | | 75 - 125 | NMT 10 |


ADVANCED TECHNOLOG
LABORATORIES

SUBCONTRACT ORDER

Work Order: 1201389

SENDING LABORATORY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 Phone: 562.989.4045
 Fax: 562.989.6348
 Project Manager: Rachelle Arada




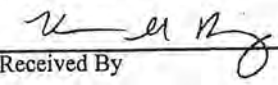
RECEIVING LABORATORY:

Exova Inc.
 9240 Santa Fe Springs Road
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 PO#: SC07191 Standard TAT

RA

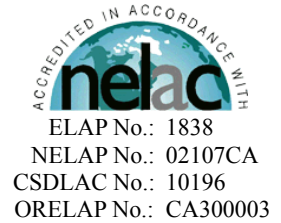
IMPORTANT : Please include Work Order # and PO # in your invoice.

| Analysis | Due | Expires | Sampled | Comments |
|-------------------------------|---------------------------|-------------------------------|----------------|----------------|
| ATL Lab#: 1201389-02 317.0 | / EW-02 04/30/12 17:00 | Groundwater 04/17/12 10:12 | 04/16/12 10:12 | Report Bromate |
| ATL Lab#: 1201389-04 317.0 | / POX 04/30/12 17:00 | Groundwater 04/17/12 09:10 | 04/16/12 09:10 | Report Bromate |
| ATL Lab#: 1201389-06 317.0 | / CEFF 04/30/12 17:00 | Groundwater 04/17/12 09:37 | 04/16/12 09:37 | Report Bromate |

| | | | |
|--|----------------------|---|------------------------------|
|  Released By | 4/16/12 Date |  Received By | 4/17/12 9:15 Date |
|  Released By | 4/17/12 1450 Date |  Received By | Exova 04-17-12 P2:44 Date |

May 18, 2012

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 : 1201610
Client Reference : RAYTHEON FULLERTON-MONTHLY, 532.15

Enclosed are the results for sample(s) received on May 01, 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,

A handwritten signature in black ink, appearing to be "E. Rodriguez".

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 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

SUMMARY OF SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|-------------|---------------|---------------|
| TB-050112 | 1201610-01 | Lab H2O | 5/01/12 9:00 | 5/01/12 12:55 |
| EW-02 | 1201610-02 | Groundwater | 5/01/12 11:20 | 5/01/12 12:55 |
| PF | 1201610-03 | Groundwater | 5/01/12 9:56 | 5/01/12 12:55 |
| POX | 1201610-04 | Groundwater | 5/01/12 10:05 | 5/01/12 12:55 |
| CBT | 1201610-05 | Groundwater | 5/01/12 10:27 | 5/01/12 12:55 |
| CEFF | 1201610-06 | Groundwater | 5/01/12 10:35 | 5/01/12 12:55 |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID TB-050112

Lab ID: 1201610-01

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 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/18/2012

Client Sample ID TB-050112

Lab ID: 1201610-01

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 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:38 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>75.1 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:38</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>89.8 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:38</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>84.4 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:38</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>93.6 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:38</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID EW-02

Lab ID: 1201610-02

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 | 0.28 | 0.05 | NA | 1 | B2E0148 | 05/03/2012 | 05/03/12 08:58 | |

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 | 600 | 10 | 10 | 1 | B2E0154 | 05/02/2012 | 05/02/12 15:06 | |

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 | 10 | 1 | B2E0136 | 05/02/2012 | 05/02/12 13:43 | |

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 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,1-Dichloroethene | 37 | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID EW-02

Lab ID: 1201610-02

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 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| cis-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |



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9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/18/2012

Client Sample ID EW-02
Lab ID: 1201610-02

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 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:59 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>78.3 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:59</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>93.5 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:59</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>89.1 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:59</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>96.3 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 18:59</i> | |

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 | 13 | 2.0 | 1.7 | 1 | B2E0088 | 05/02/2012 | 05/03/12 15:28 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | <i>96.6 %</i> | | <i>37 - 93</i> | | B2E0088 | 05/02/2012 | <i>05/03/12 15:28</i> | S8 |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>102 %</i> | | <i>51 - 100</i> | | B2E0088 | 05/02/2012 | <i>05/03/12 15:28</i> | S8 |
| <i>Surrogate: 4-Terphenyl-d14</i> | <i>145 %</i> | | <i>58 - 113</i> | | B2E0088 | 05/02/2012 | <i>05/03/12 15:28</i> | S8 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>108 %</i> | | <i>39 - 95</i> | | B2E0088 | 05/02/2012 | <i>05/03/12 15:28</i> | S8 |



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San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID PF

Lab ID: 1201610-03

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 | B2E0136 | 05/02/2012 | 05/02/12 13:45 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID POX

Lab ID: 1201610-04

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 | 0.28 | 0.05 | NA | 1 | B2E0148 | 05/03/2012 | 05/03/12 09:09 | |

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 | 600 | 10 | 10 | 1 | B2E0154 | 05/02/2012 | 05/02/12 15:08 | |

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 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,1-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID POX

Lab ID: 1201610-04

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 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| cis-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/18/2012

Client Sample ID POX
Lab ID: 1201610-04

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 |
|---|------------------|---------------|---------------|----------|---------|------------|-----------------------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 83.0 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 104 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| <i>Surrogate: Dibromofluoromethane</i> | 95.4 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |
| <i>Surrogate: Toluene-d8</i> | 107 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 17:38 | |

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 | B2E0087 | 05/02/2012 | 05/02/12 21:01 | |
| <i>Surrogate: 1,2-Dichlorobenzene-d4</i> | 84.2 % | 36 - 107 | | | B2E0087 | 05/02/2012 | 05/02/12 21:01 | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | 83.1 % | 42 - 120 | | | B2E0087 | 05/02/2012 | 05/02/12 21:01 | |
| <i>Surrogate: 4-Terphenyl-d14</i> | 103 % | 67 - 142 | | | B2E0087 | 05/02/2012 | 05/02/12 21:01 | |
| <i>Surrogate: Nitrobenzene-d5</i> | 90.5 % | 36 - 130 | | | B2E0087 | 05/02/2012 | 05/02/12 21:01 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID CBT

Lab ID: 1201610-05

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 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,1-Dichloroethane | 0.56 | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| 4-Isopropyltoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/18/2012

Client Sample ID CBT
Lab ID: 1201610-05

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 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 17:58 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>75.8 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 17:58</i> | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>94.9 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 17:58</i> | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>88.4 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 17:58</i> | |
| <i>Surrogate: Toluene-d8</i> | <i>97.0 %</i> | | <i>70 - 130</i> | | B2E0007 | 05/01/2012 | <i>05/01/12 17:58</i> | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID CEFF

Lab ID: 1201610-06

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 | 0.31 | 0.05 | NA | 1 | B2E0148 | 05/03/2012 | 05/03/12 09:20 | |

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 | 600 | 10 | 10 | 1 | B2E0154 | 05/02/2012 | 05/02/12 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 | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,1,1-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,1,2-Trichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,1-Dichloroethane | 0.89 | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,1-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,1-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2,3-Trichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2-Dibromoethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2-Dichloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,3-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,3-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 1,4-Dichlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 2,2-Dichloropropane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 2-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| 4-Chlorotoluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |



Hargis & Associates, Inc.

9171 Towne Centre Drive, Suite 375

San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Client Sample ID CEFF

Lab ID: 1201610-06

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 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Benzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Bromobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Bromodichloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Bromoform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Bromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Carbon tetrachloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Chlorobenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Chloroethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Chloroform | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Chloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| cis-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| cis-1,3-Dichloropropene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Dibromochloromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Dibromomethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Dichlorodifluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Ethylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Hexachlorobutadiene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Isopropylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| m,p-Xylene | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Methylene chloride | ND | 1.0 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| n-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| n-Propylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Naphthalene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| o-Xylene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| sec-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Styrene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| tert-Butylbenzene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Tetrachloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Toluene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| trans-1,2-Dichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Trichloroethene | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Trichlorofluoromethane | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| Vinyl chloride | ND | 0.50 | NA | 1 | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |



Hargis & Associates, Inc.
9171 Towne Centre Drive, Suite 375
San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
Report To : Steve Netto
Reported : 05/18/2012

Client Sample ID CEFF
Lab ID: 1201610-06

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 |
|---|------------------|---------------|---------------|----------|---------|------------|-----------------------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 89.6 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 111 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| <i>Surrogate: Dibromofluoromethane</i> | 103 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |
| <i>Surrogate: Toluene-d8</i> | 113 % | 70 - 130 | | | B2E0007 | 05/01/2012 | 05/01/12 18:18 | |



Hargis & Associates, Inc.
 9171 Towne Centre Drive, Suite 375
 San Diego , CA 92122

Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/18/2012

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 | % Rec Limits | RPD | RPD Limit | Notes |
|--|------------------|---------------|----------------|--|----------------|-----------------|-----|--------------|-------|
| Batch B2E0148 - No_Prep_IC_1 | | | | | | | | | |
| Blank (B2E0148-BLK1) | | | | Prepared: 5/3/2012 Analyzed: 5/3/2012 | | | | | |
| Bromide | ND | 0.05 | | | NR | | | | |
| LCS (B2E0148-BS1) | | | | Prepared: 5/3/2012 Analyzed: 5/3/2012 | | | | | |
| Bromide | 0.96 | 0.05 | 1.00 | | 96 | 90 - 110 | | | |
| Duplicate (B2E0148-DUP1) | | | | Source: 1201631-01 Prepared: 5/3/2012 Analyzed: 5/3/2012 | | | | | |
| Bromide | ND | 25 | | 3.5 | NR | | | 20 | |
| Matrix Spike (B2E0148-MS1) | | | | Source: 1201631-01 Prepared: 5/3/2012 Analyzed: 5/3/2012 | | | | | |
| Bromide | 2.5 | | 2.50 | 0.007 | 101 | 80 - 120 | | | |
| Matrix Spike Dup (B2E0148-MSD1) | | | | Source: 1201631-01 Prepared: 5/3/2012 Analyzed: 5/3/2012 | | | | | |
| Bromide | 2.5 | | 2.50 | 0.007 | 101 | 80 - 120 | 0.7 | 20 | |



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Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/18/2012

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 B2E0154 - No_Prep_WC_1

Blank (B2E0154-BLK1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

Residue, Dissolved

ND

10

NR

LCS (B2E0154-BS1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

Residue, Dissolved

980

10

970

101

80 - 120

Duplicate (B2E0154-DUP1)

Source: 1201610-06

Prepared: 5/2/2012 Analyzed: 5/2/2012

Residue, Dissolved

600

10

600

NR

0.3

10



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Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/18/2012

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 B2E0136 - No_Prep_WC_1

Blank (B2E0136-BLK1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

Residue, Suspended

ND

10

NR

LCS (B2E0136-BS1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

Residue, Suspended

100

10

96.6

104

80 - 120

Duplicate (B2E0136-DUP1)

Source: 1201560-01

Prepared: 5/2/2012 Analyzed: 5/2/2012

Residue, Suspended

19

10

18

NR

5

10



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Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0007 - MSVOAW_LL

Blank (B2E0007-BLK1)

Prepared: 5/1/2012 Analyzed: 5/1/2012

| | | | | | |
|-----------------------------|----|------|--|--|----|
| 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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Project Number : RAYTHEON FULLERTON-MONTHLY,

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Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0007 - MSVOAW_LL (continued)

Blank (B2E0007-BLK1) - Continued

Prepared: 5/1/2012 Analyzed: 5/1/2012

| | | | | | | | | | |
|--------------------------|----|------|--|--|--|----|--|--|--|
| 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 | | | |

| | | | | | | | | | |
|---|-----------|--|-------------|--|-------------|-----------------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>18</i> | | <i>25.0</i> | | <i>73.0</i> | <i>70 - 130</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>23</i> | | <i>25.0</i> | | <i>91.7</i> | <i>70 - 130</i> | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>21</i> | | <i>25.0</i> | | <i>85.4</i> | <i>70 - 130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>24</i> | | <i>25.0</i> | | <i>94.7</i> | <i>70 - 130</i> | | | |

LCS (B2E0007-BS1)

Prepared: 5/1/2012 Analyzed: 5/1/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|--|--|--|
| 1,1-Dichloroethene | 16 | 0.50 | 20.0 | | 78.0 | 70 - 130 | | | |
| Benzene | 39 | 0.50 | 40.0 | | 96.5 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | | 103 | 70 - 130 | | | |
| MTBE | 17 | 0.50 | 20.0 | | 84.4 | 70 - 130 | | | |
| Toluene | 40 | 0.50 | 40.0 | | 101 | 70 - 130 | | | |
| Trichloroethene | 20 | 0.50 | 20.0 | | 99.9 | 70 - 130 | | | |

| | | | | | | | | | |
|---|-----------|--|-------------|--|-------------|-----------------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>19</i> | | <i>25.0</i> | | <i>74.1</i> | <i>70 - 130</i> | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>23</i> | | <i>25.0</i> | | <i>90.8</i> | <i>70 - 130</i> | | | |
| <i>Surrogate: Dibromofluoromethane</i> | <i>21</i> | | <i>25.0</i> | | <i>84.9</i> | <i>70 - 130</i> | | | |
| <i>Surrogate: Toluene-d8</i> | <i>24</i> | | <i>25.0</i> | | <i>95.4</i> | <i>70 - 130</i> | | | |

LCS Dup (B2E0007-BSD1)

Prepared: 5/1/2012 Analyzed: 5/1/2012

| | | | | | | | | | |
|--------------------|----|------|------|--|------|----------|------|----|--|
| 1,1-Dichloroethene | 15 | 0.50 | 20.0 | | 77.1 | 70 - 130 | 1.16 | 20 | |
| Benzene | 38 | 0.50 | 40.0 | | 94.0 | 70 - 130 | 2.65 | 20 | |
| Chlorobenzene | 20 | 0.50 | 20.0 | | 100 | 70 - 130 | 2.47 | 20 | |
| MTBE | 18 | 0.50 | 20.0 | | 88.6 | 70 - 130 | 4.86 | 20 | |
| Toluene | 39 | 0.50 | 40.0 | | 97.5 | 70 - 130 | 3.67 | 20 | |
| Trichloroethene | 19 | 0.50 | 20.0 | | 95.0 | 70 - 130 | 5.08 | 20 | |

| | | | | | | | | | |
|---|-----------|--|-------------|--|-------------|-----------------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>19</i> | | <i>25.0</i> | | <i>75.0</i> | <i>70 - 130</i> | | | |
|---|-----------|--|-------------|--|-------------|-----------------|--|--|--|



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Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/18/2012

Volatile Organic Compounds by EPA 8260 - Quality Control (cont'd)

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|-----|--------------|-------|

Batch B2E0007 - MSVOAW_LL (continued)

LCS Dup (B2E0007-BSD1) - Continued

Prepared: 5/1/2012 Analyzed: 5/1/2012

| | | | | | | | | | |
|---------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 4-Bromofluorobenzene | 23 | | 25.0 | | 90.2 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 21 | | 25.0 | | 84.7 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 23 | | 25.0 | | 93.1 | 70 - 130 | | | |

Matrix Spike (B2E0007-MS1)

Source: 1201594-24RE2

Prepared: 5/1/2012 Analyzed: 5/1/2012

| | | | | | | | | | |
|--------------------|-----|------|------|------|------|----------|--|--|----|
| 1,1-Dichloroethene | 19 | 0.50 | 20.0 | ND | 93.6 | 70 - 130 | | | |
| Benzene | 41 | 0.50 | 40.0 | 0.24 | 103 | 70 - 130 | | | |
| Chlorobenzene | 21 | 0.50 | 20.0 | ND | 107 | 70 - 130 | | | |
| MTBE | 320 | 0.50 | 20.0 | 300 | 65.5 | 70 - 130 | | | M2 |
| Toluene | 43 | 0.50 | 40.0 | 0.29 | 106 | 70 - 130 | | | |
| Trichloroethene | 21 | 0.50 | 20.0 | ND | 106 | 70 - 130 | | | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 24 | | 25.0 | | 95.4 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 29 | | 25.0 | | 116 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 26 | | 25.0 | | 106 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 29 | | 25.0 | | 115 | 70 - 130 | | | |

Matrix Spike Dup (B2E0007-MSD1)

Source: 1201594-24RE2

Prepared: 5/1/2012 Analyzed: 5/1/2012

| | | | | | | | | | |
|--------------------|-----|------|------|------|-------|----------|------|----|----|
| 1,1-Dichloroethene | 21 | 0.50 | 20.0 | ND | 104 | 70 - 130 | 10.9 | 20 | |
| Benzene | 48 | 0.50 | 40.0 | 0.24 | 118 | 70 - 130 | 13.7 | 20 | |
| Chlorobenzene | 25 | 0.50 | 20.0 | ND | 125 | 70 - 130 | 15.4 | 20 | |
| MTBE | 300 | 0.50 | 20.0 | 300 | -27.6 | 70 - 130 | 6.09 | 20 | M2 |
| Toluene | 49 | 0.50 | 40.0 | 0.29 | 122 | 70 - 130 | 14.0 | 20 | |
| Trichloroethene | 24 | 0.50 | 20.0 | ND | 119 | 70 - 130 | 11.9 | 20 | |

| | | | | | | | | | |
|----------------------------------|----|--|------|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 23 | | 25.0 | | 93.2 | 70 - 130 | | | |
| Surrogate: 4-Bromofluorobenzene | 29 | | 25.0 | | 115 | 70 - 130 | | | |
| Surrogate: Dibromofluoromethane | 25 | | 25.0 | | 102 | 70 - 130 | | | |
| Surrogate: Toluene-d8 | 28 | | 25.0 | | 114 | 70 - 130 | | | |



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Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

1,4-Dioxane by EPA 8270: Isotope Dilution Technique - Quality Control

| Analyte | Result (ug/L) | PQL (ug/L) | Spike Level | Source Result | % Rec % Rec | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0088 - MSSEMI_ISOTOPEDILN

Blank (B2E0088-BLK1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|----|
| 1,4-Dioxane | ND | 2.0 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 80 | | 100 | | 80.4 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 88 | | 100 | | 88.2 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 120 | | 100 | | 122 | 58 - 113 | | | S1 |
| Surrogate: Nitrobenzene-d5 | 91 | | 100 | | 91.0 | 39 - 95 | | | |

LCS (B2E0088-BS1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|--|--|--|
| 1,4-Dioxane | 97 | 2.0 | 100 | | 97.4 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 83 | | 100 | | 82.7 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 91 | | 100 | | 91.4 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 100 | | 100 | | 101 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 89 | | 100 | | 89.2 | 39 - 95 | | | |

LCS Dup (B2E0088-BSD1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

| | | | | | | | | | |
|-----------------------------------|-----|-----|-----|--|------|----------|------|----|--|
| 1,4-Dioxane | 94 | 2.0 | 100 | | 94.3 | 70 - 130 | 3.18 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 82 | | 100 | | 81.5 | 37 - 93 | | | |
| Surrogate: 2-Fluorobiphenyl | 92 | | 100 | | 91.5 | 51 - 100 | | | |
| Surrogate: 4-Terphenyl-d14 | 100 | | 100 | | 101 | 58 - 113 | | | |
| Surrogate: Nitrobenzene-d5 | 93 | | 100 | | 92.6 | 39 - 95 | | | |



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Project Number : RAYTHEON FULLERTON-MONTHLY,
 Report To : Steve Netto
 Reported : 05/18/2012

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 | % Rec Limits | RPD RPD | RPD Limit | Notes |
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|
|---------|------------------|---------------|----------------|------------------|----------------|-----------------|------------|--------------|-------|

Batch B2E0087 - MSSEMI_ISOTOPEDILN

Blank (B2E0087-BLK1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | ND | 0.20 | | | NR | | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.82 | | 1.00 | | 82.2 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.77 | | 1.00 | | 77.2 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.94 | | 1.00 | | 94.4 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.85 | | 1.00 | | 84.8 | 36 - 130 | | | |

LCS (B2E0087-BS1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|--|--|--|
| 1,4-Dioxane | 0.95 | 0.20 | 1.00 | | 95.1 | 70 - 130 | | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.80 | | 1.00 | | 80.1 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.74 | | 1.00 | | 73.8 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.88 | | 1.00 | | 88.3 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.87 | | 1.00 | | 87.1 | 36 - 130 | | | |

LCS Dup (B2E0087-BSD1)

Prepared: 5/2/2012 Analyzed: 5/2/2012

| | | | | | | | | | |
|-----------------------------------|------|------|------|--|------|----------|------|----|--|
| 1,4-Dioxane | 0.92 | 0.20 | 1.00 | | 91.8 | 70 - 130 | 3.55 | 20 | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 0.74 | | 1.00 | | 74.0 | 36 - 107 | | | |
| Surrogate: 2-Fluorobiphenyl | 0.71 | | 1.00 | | 71.4 | 42 - 120 | | | |
| Surrogate: 4-Terphenyl-d14 | 0.77 | | 1.00 | | 76.8 | 67 - 142 | | | |
| Surrogate: Nitrobenzene-d5 | 0.85 | | 1.00 | | 85.2 | 36 - 130 | | | |



Hargis & Associates, Inc.

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Project Number : RAYTHEON FULLERTON-MONTHLY,

Report To : Steve Netto

Reported : 05/18/2012

Notes and Definitions

| | |
|-----|---|
| S8 | Surrogate recovery was above laboratory acceptance limit. See CAR for details. |
| S1 | Surrogate recovery was above laboratory acceptance limit. No target analyte was detected in the sample. |
| 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) |

Bromate by EPA 317
 Ion Chromatography with Post-Column Derivatization-Visible Absorption

Column: Dionex AS9-HC/AG9-HSC
 Eluent: 30 mM Na₂CO₃
 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 |
|--------------------|--------|-----------------|
| 1201610-02 / EW-02 | ND | 0.5 |
| 1201610-04 / POX | 8 | 5 |
| 1201610-06 / CEFF | 6.3 | 0.5 |
| Method Blank | ND | 0.5 |

Date Analyzed: 05-15-12

Quality Control Summary

Sample ID: 1201610-06 / CEFF

| Analyte | Sample Result | Spike Conc | Spike Result | Spike % Rec | Spike Duplicate Result | Spike Duplicate % Rec | Spike RPD |
|---------------|---------------|------------|--------------|-------------|------------------------|-----------------------|-----------|
| Bromate | 6.3 | 11.1 | 17.8 | 104 | 17.4 | 100 | 2 |
| QC Guidelines | | | | 75 - 125 | | 75 - 125 | NMT 10 |


ADVANCED TECHNOLOGY
 LABORATORIES

SUBCONTRACT ORDER

Work Order: 1201610

SENDING LABORATORY:



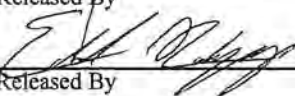
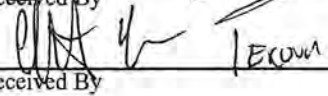
Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 Phone: 562.989.4045
 Fax: 562.989.6348
 Project Manager: Rachele Arada

RECEIVING LABORATORY:

Exova Inc.
 9240 Santa Fe Springs Road
 Santa Fe Springs, CA 90670
 Phone : (562) 948-2225
 Fax: (562) 948-5850
 PO#: SC07238 - Standard TAT RA

IMPORTANT : Please include Work Order # and PO # in your invoice.

| Analysis | Due | Expires | Sampled | Comments |
|-------------------------------|---------------------------|-------------------------------|----------------|----------|
| ATL Lab#: 1201610-02 317.0 | / EW-02 05/15/12 17:00 | Groundwater 05/02/12 11:20 | 05/01/12 11:20 | BROMATE |
| ATL Lab#: 1201610-04 317.0 | / POX 05/15/12 17:00 | Groundwater 05/02/12 10:05 | 05/01/12 10:05 | |
| ATL Lab#: 1201610-06 317.0 | / CEFF 05/15/12 17:00 | Groundwater 05/02/12 10:35 | 05/01/12 10:35 | |

| | | | |
|--|---------------------|---|---------------------|
|  Released By | 5/1/12 Date |  Received By | 5/2/12 9:17 Date |
|  Released By | 5/2/12 1235 Date |  Received By | 05-02-12 Date |

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST FORM

| PROJECT NAME | | PROJECT No./TASK No. | | SAMPLE CONTAINERS | | ANALYSIS REQUESTED | | ESTIMATED CONCENTRATION RANGE (ppb) FOR VOA'S | | SPECIAL HANDLING | | LABORATORY INFORMATION | | | | | | | | | | | | | | | | | |
|--|-----------|------------------------|----------------|-------------------|--------------|---|--------------|---|-------|------------------|-------------|---|-------------|-----------|-------------------|--|----------------|----------------|----------------|----------------|-----------------------------|------|--------|-----------|--------|---------|------|-------------------|----------------|
| RAYTHEON FULLERTON-MONTHLY | | 532.15 | | | | | | | | | | ALY C/O Rachelle Arada 3275 Walnut Ave. Signal Hill, CA 50307 562-909-4045 | | | | | | | | | | | | | | | | | |
| PROJECT MANAGER CHRIS ROSS | | Phone No. 858-455-6500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QA MANAGER STEVE NETTO | | Fax No. 858-455-6533 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLER (SIGNATURE) | | SAMPLER (PRINTED) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Travis Arciaga | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LAB ID | SAMPLE ID | SAMPLE COLLECTION | | MATRIX | | | PRESERVATION | | | 40 ml Glass VOA | 125 ml Poly | 250 ml Poly | 500 ml Poly | 1 L Amber | VOCs by EPA 8260B | 1,4-Dioxane by EPA 8270 SIM | Bromate by 317 | TSS by SM2540C | TSS by SM2540D | Bromide by 309 | 1,4-Dioxane by EPA 8270 MOD | 0-10 | 10-100 | 100-1,000 | >1,000 | REMARKS | | | |
| | | Date | Time | Soil | Ground-water | Surface water | Lab H2O | HCl | HNO 3 | | | | | | | | | | | | | | | | | | NaOH | H2SO 4 | Ice |
| 1201610-01 | TB-050112 | 5/11/12 | 9:00 | | | X | X | | | X | | | | | | | | | | | | | | | | | | | Please include |
| - 2 | EW-02 | | 11:20 | X | | | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | in lab report | |
| - 3 | PF | | 9:56 | X | | | | | | | | | | | | | | | X | | | | | | | | | distribution list | |
| - 4 | POX | | 10:05 | X | | | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | set 1,4-Dioxane | |
| - 5 | CBT | | 10:27 | X | | | X | | | X | | | | | | | | | | | | | | | | | | MDL to 1.0 ppm | |
| - 6 | CEFF | | 10:35 | X | | | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| Total number of Containers per analysis: | | | | | | | | | | 465 | 2 | Total No. of Containers: <u>27</u> | | | | | | | | | | | | | | | | | |
| Relinquished by: | | Date | Received by: | | Date | INSTRUCTIONS | | | | | | | | | | Shipment Method: <u>Bover</u> | | | | | | | | | | | | | |
| | | 5/11/12 | | | 5/11/12 | 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. | | | | | | | | | | Send Results to: <u>Steve Netto</u> | | | | | | | | | | | | | |
| H+A Company | | 12:15 | H+A Company | | 12:15 | | | | | | | | | | | <input checked="" type="checkbox"/> 9171 TOWNE CENTRE DRIVE, SUITE 375 SAN DIEGO, CA 92122 (858) 455-6500 <input type="checkbox"/> 1640 SOUTH STAPLEY DRIVE, SUITE 124 MESA, AZ 85204 (480) 345-0888 <input type="checkbox"/> 1820 EAST RIVER ROAD, SUITE 220 TUCSON, AZ 85718 (520) 881-7300 | | | | | | | | | | | | | |
| Relinquished by: | | Date | Received by: | | Date | Sample Receipt: | | | | | | | | | | Send invoice to San Diego, CA | | | | | | | | | | | | | |
| | | 5/11/12 | FPDIWA | | 5/11/12 | <input type="checkbox"/> No. of containers correct <input type="checkbox"/> custody seals secure <input checked="" type="checkbox"/> received good condition/cold <input type="checkbox"/> conforms to COC document | | | | | | | | | | Attn: Accounts Payable | | | | | | | | | | | | | |
| H+A Company | | 12:55 | AR Company | | 12:55 | | | | | | | | | | | | | | | | | | | | | | | | |