April 29, 2015 Project No. 15-21576

Ms. Leslie Dumas
RMC Water and Environment
2175 North California Boulevard, Suite 315
Walnut Creek, California 94596

RE: REPORT ON PHASE II ENVIRONMENTAL SITE ASSESSMENT
CIVIC CENTER WASTEWATER TREATMENT PLANT
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

Dear Ms. Dumas:

Golder Associates Inc. (Golder) presents this report to RMC Water and Environment (RMC) documenting the results of the Phase II Environmental Site Assessment conducted at the property located at 24000 Civic Center Way, Malibu, California (the Site or Subject Property, see Figure 1). Information presented in this report is subject to the general limitations and the proposal dated January 15, 2015.

The objective of the field investigative activities was to evaluate the potential for soil, soil vapor, and groundwater impacts at the Site due to historical land uses and current wastewater treatment activities. A summary of the work completed, field observations, and data obtained during the assessment is presented in the following sections.

1.0 SITE AND BACKGROUND INFORMATION

The Subject Property is a wastewater treatment facility and leach field. Treated sanitary sewer wastewater from nearby properties, including a shopping center that formerly had a dry cleaning facility, discharges to the Site. The wastewater is treated and is discharged to the on-site leach field lines where it infiltrates into the soil. Surrounding properties include vacant and undeveloped land to the west, Pacific Coast Highway to the south, and Civic Center Way to the east and north of the Subject Property. Beyond Civic Center Way are residentially developed properties.

The Site maintains five groundwater monitoring wells that are regularly sampled.

RMC requested that Golder evaluate the subsurface conditions in soil and groundwater at the Site by performing soil, soil vapor, and groundwater sampling and laboratory testing. Below is a summary of the field work activities.

2.0 SUMMARY OF FIELD ACTIVITIES

The scope of field work conducted at the Site included the following:

- Collecting a total of 17 soil samples from eight soil borings advanced throughout the Subject Property
- Performing a soil-vapor survey at eight locations adjacent to the borings at the locations
- Sampling groundwater at five existing monitoring wells on the Subject Property

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The approximate locations of the soil borings, soil vapor sample points and groundwater water monitoring is shown on Figure 2. Photos of the Site and sampling activities are provided in Attachment A.

Additional details on the work performed are provided below.

2.1 Geophysical Survey

Prior to initiating drilling activities, Golder marked the boring locations and contracted with Ground Penetrating Radar Systems, Inc. (GPRS) to conduct an underground utility clearance in an approximately 10-feet by 10-feet area around each boring location. Golder also contacted Underground Service Alert (USA) at least 48 hours prior to drilling.

2.2 Soil Sampling Procedures

On February 24, 2015, Martini Drilling Corporation (Martini) advanced eight borings at the Site using a truck-mounted hollow-stem-auger drill rig. Prior to drilling, the upper 4 feet of soil was hand augured as an additional precaution to avoid underground obstructions. The eight borings were advanced to approximately 20 feet below ground surface (bgs).

Two soil samples were collected and submitted to the laboratory for analysis from each of the borings, with the exception of boring SB-3, where three samples were collected and analyzed. Discrete soil samples were collected at one foot bgs using a hand auger. Deeper samples were collected with an 18 inch long split-spoon Standard Penetration Test (SPT) sampler at five foot intervals. Soil samples were collected in three, six-inch long by 1.5-inch diameter brass liners. Each soil sample was inspected for indication of impact (i.e., staining and odor) and screened in the field for volatile organic compounds (VOCs) using a photoionization detector (PID). Soil boring locations are shown on Figure 2.

A Golder engineer oversaw the drilling program and generated boring logs based on an examination of the soil cores. Field observations (i.e., PID measurements, visual and olfactory observations) are presented in the boring logs provided in Attachment B. At approximately 20 feet bgs in soil boring SB-3, a distinct approximately six inch black soil layer was observed, therefore, a sample was also collected and analyzed at this depth.

Proper sample collection and handling protocol was utilized (i.e., disposable gloves and clean sampling equipment) to ensure sample integrity. Soil samples submitted for laboratory analysis by covering both ends of the brass liner with Teflon tape and tight-fitting polyethylene end caps, placed in zip lock-type plastic bags, and temporarily stored in an insulated cooler to maintain a temperature of approximately 4°C. Each sample was labeled with the boring and sample number, date and time sampled, and transported to TestAmerica of Irvine, California for analysis. Chain-of-custody forms were filled out by field personnel and maintained with the samples. A copy of the laboratory report and chain-of-custody are provided in Attachment C.

After samples were collected, each borehole was backfilled to the ground surface with cement bentonite grout.

2.2.1 Soil Sampling Analysis

Golder submitted a total of 17 soil samples for laboratory analysis. The one foot bgs samples were submitted for the following analyses:

- Title 22 (CAM 17) Metals using EPA Method 6010B
- Semi Volatile Organic Compounds (SVOCs) using EPA Method 8270C
- Organic Pesticides (OCPs) using EPA Method 8081A
- Polychlorinated Biphenyls (PCBs) using EPA Method 8082

The five and twenty foot bgs samples were submitted for the following analyses:

- Total Petroleum Hydrocarbons (TPH) using EPA Method 8015B
- Volatile Organic Compounds (VOCs) using EPA Method 8260B
- Title 22 (CAM 17) Metals using EPA Method 6010B
- SVOCs using EPA Method 8270C
- OCPs using EPA Method 8081A
- PCBs using EPA Method 8082

2.3 Soil Vapor Sampling

A soil vapor survey was conducted by Optimal Technology (Optimal) at the Site on February 23, 2015. Soil vapor samples were collected and analyzed on-site from the eight boring locations. The approximate sample locations are shown on Figure 2. A copy of the soil vapor report is provided in Attachment D.

A shallow (five feet bgs) soil vapor sample was collected at each of the eight locations. Additionally, a deeper soil vapor sample was attempted at 15 feet bgs from each boring; however, at some of the locations, the probe hit refusal or there was not sufficient air flow at depth, therefore, a sample was collected from as deep as possible (10-15 feet bgs) at each location, with the exception of SV-6. A deep soil vapor sample was attempted to be collected at SV-6; however, refusal was encountered at approximately seven feet bgs, therefore, a deep soil vapor sample was not collected at this location and only a shallow (five foot) sample was analyzed.

An electronic rotary hammer was used to drill a 1-inch diameter hole through the overlying surface to allow for probe placement. Soil vapor sampling was performed by hydraulically pushing a ½-inch stainless steel gas probe to the depth of the sample. An electronic vacuum pump was set to draw 0.2 liters/min of soil vapor, attached to the probe, and the vapor probe was purged prior to sample collection. Vapor samples were obtained in SGE gas-tight syringes by drawing the sample through a luer-lock connection, which connects the sampling probe and vacuum pump. Samples were immediately transferred to Optimal's on-site mobile laboratory and injected into the gas chromatograph/purge and trap for analysis. Each soil vapor sample was analyzed for VOCs using EPA Method 8260B.

Each soil vapor sampling borehole was backfilled to the ground surface with granular bentonite and hydrated.

2.4 Groundwater Sampling

Staff from Blainetech purged and sampled the five on-site groundwater monitoring wells on February 23, 2015. The depth to water in each well was recorded as follows:

- MW-1 : 39.83 feet bgs
- MW-2 : 45.46 feet bgs
- MW-3 : 37.34 feet bgs
- MW-4 : 41.02 feet bgs
- MW-5 : 44.04 feet bgs

The wells were purged and sampled using a submersible pump. Groundwater temperature, electrical conductivity (EC), pH, and turbidity were measured during purging. The calculated purge volume ranged from 25.17 gallons for MW-1 to 43.68 gallons for well MW-4. Approximately three casing volumes were purged from each monitoring well prior to sampling. The water levels were allowed to recharge to 80% before collecting groundwater samples for laboratory analysis. The temperature, pH, dissolved oxygen, and conductivity remained relatively stable during purging. The turbidity of the water improved and was

measured to be less than 10 NTUs in wells MW-2 through MW-5; however, after removing three case volumes, turbidity stabilized at 230 NTUs in MW-1.

One groundwater sample was obtained from each groundwater monitoring well for chemical analysis. New tubing was used at each location for purging and sampling the groundwater. The groundwater samples were transferred to 40 ml VOA vials that were preserved with hydrochloric acid, 1 liter amber glass jars, and polyethylene containers. Each groundwater sample was properly labeled with the sample identification, date and time sampled, and transported to the analytical laboratory for analysis. Chain-of-Custody forms were filled out by field personnel and maintained with the samples. All sampling equipment coming into contact with groundwater was decontaminated between wells using a steam cleaner. A copy of the monitoring well sampling forms is included in Attachment E.

2.4.1 Groundwater Sampling Analysis

Golder submitted five groundwater samples for the following analyses:

- VOCs using 40CFR136A Method 624
- SVOCs using EPA Method 625
- Perchlorate using EPA Method 314.0

2.5 Field Observations

Soils encountered during drilling primarily consisted of moist, brown, fine grained, silty sand to approximately 20 feet bgs. In a few borings, a clayey sand layer was encountered at approximately 10-15 feet bgs. In SB-3, a black layer with a slight organic odor was encountered at 20 feet bgs; therefore, a sample was collected and analyzed at this depth. PID readings were taken every five feet and are listed on the boring logs. Boring logs containing a detailed description of the lithology encountered are provided in Attachment B.

2.6 Investigation Derived Waste

Soil cuttings, purge water and decontamination rinsate were drummed in appropriately sized DOT containers and stored in the City of Malibu maintenance yard located pending analytical results to profile the wastes for disposal.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Soil Sampling Results

A total of 17 samples were collected and submitted for analysis from the Site. A summary of the laboratory analytical results is provided in the Tables 1 through 4. A copy of the certified analytical reports is in Attachment C.

Golder compared the results from the laboratory analyses with the following regulatory standards:

- EPA Region 9 Regional Screening Level (RSLs) for industrial soil, dated January 2015.
- Los Angeles Regional Water Quality Control Board's Soil Screening Levels (SSL) for soil where groundwater is 20 feet or less below soil.

RSLs address the direct exposure to contaminants, excluding TPH, in residential and industrial soil. The RSLs are used as screening levels for metals and VOCs in soil to assess if remediation may be necessary. The screening levels are based on human health risk and do not address potential ecological risks.

SSLs were established to assess when a threat or probable threat to groundwater has occurred and evaluate the need for remediation of soils contaminated by petroleum hydrocarbons.

TPH in the gasoline range (GRO) was not detected above laboratory reporting limits in any of the samples analyzed. TPH in the diesel range (DRO) was detected in three borings (SB-2, SB-6, and SB-8) at five feet bgs at a maximum concentration of 4.5 mg/kg, which is below the SSL of 100 mg/kg. TPH in the oil range (ORO) was detected in all eight borings at five feet bgs at a maximum concentration of 16 mg/kg, which is below the SSL of 1,000 mg/kg. A summary of the TPH results is provided in Table 1.

Only one VOC (methylene chloride) was detected in the soil samples. Methylene chloride was detected at 0.013 mg/kg in SB3 at 20 feet bgs, which is below the RSL of 320 mg/kg. One SVOC (Bis [2-ethylhexyl] phthalate) was detected in one soil sample. Bis (2-ethylhexyl) phthalate was detected at 0.31 mg/kg in SB-2 at a depth of five (5) feet bgs, which is below the RSL of 320 mg/kg. A summary of the VOC and SVOC results is in Table 2.

Low levels of some OCPs (4,4'-DDE, 4,4'DDT, and/or chlordane) were detected at one and five feet bgs in three borings at concentrations below the RSLs. PCBs were not detected above the laboratory reporting limits in any of the soil samples. A summary of the OCP and PCB results is in Table 3.

Metals were detected in each of the samples analyzed at concentrations below the RSLs, with the exception of arsenic. Arsenic was detected above the RSL; however, arsenic is a common constituent detected in soils throughout California. The arsenic is typically derived from the weathering of arsenic-bearing bedrock and is assumed, at the concentrations detected in the borings, to be indicative of background concentrations, which commonly exceed the RSL. A summary of the metal results is in Table 4.

3.2 Soil Vapor Sampling Results

Two soil vapor samples were analyzed from each of the eight probe locations and analyzed for VOCs using EPA Method 8260B, with the exception of SV-6 which only had one sample analyzed. Chloroform and tetrachloroethene (PCE) were the only VOCs detected in the soil vapor samples analyzed. PCE was only detected in the 11 foot sample from SV-2. Chloroform was detected at 11 feet in SV-2, 10 feet at SV-3, and at 5 and 15 feet in SV- 5. The analytical results for the soil vapor samples collected during the soil vapor investigation are summarized in Table 5. A copy of the laboratory analytical report for the soil vapor samples is provided in Attachment D.

Soil vapor VOC results were compared to the California Human Health Screening Levels (CHHSLs) for shallow soil gas in commercial/industrial soils. CHHSLs address risks to human health only. The CHHSLs are based on soil gas samples collected at five feet bgs or less below the building foundation or the ground surface. CHHSLs are intended to evaluate the potential for vapor intrusion into buildings and potential impacts to indoor air. Concentrations below the CHHSLs are considered to be below thresholds of concern for risks to human health. CHHSLs are not regulatory in nature.

PCE was detected at 0.11 µg/L at 11 feet bgs in SV-2, which is below the CHHSL of 0.603 µg/L. Chloroform was detected at concentrations up to 17.06 µg/L. There is no established CHHSL for chloroform. Chloroform is commonly released to air as a result of its formation in the chlorination of drinking water and wastewater. The presence of chloroform in soils at this wastewater treatment plant leach field is consistent with the disposal of chlorinated water in the leach field.

3.3 Groundwater Sampling Results

Five groundwater samples (MW-1 through MW-5) were collected and submitted for laboratory analyses. A summary of the laboratory analytical results is in Table 6.

Perchlorate (a constituent of potential concern) was not detected in the five groundwater samples. Only one SVOC (diethyl phthalate) was detected in one monitoring well (MW-1). The following VOCs were detected in at least one monitoring well: methylene chloride, acetone, and chloroform.

Golder compared the results from the laboratory analyses with EPA's Maximum Contaminant Levels (MCLs) for drinking water dated July 2014. Methylene chloride was detected in wells MW-1 through MW-4 at a maximum concentration of 1.1 µg/L, which is below the MCL of 5.0 µg/L. Acetone was detected only in well MW-5 at a concentration of 26 µg/L. There is no established MCL for acetone. Chloroform was detected in wells MW-3 and MW-5 at a maximum concentration of 1.0 µg/L, which is below the MCL of 80 µg/L.

4.0 CONCLUSIONS

Seventeen soil samples were analyzed to evaluate if impacts to soil exist at the Site. Analytes (TPH, VOCs, SVOCs, OCPs, PCBs and Metals) were either not detected above laboratory reporting limits or were detected at concentrations below the regulatory standards (RSLs or SSLs) for industrial sites; with the exception of arsenic which was detected at background concentrations typical of soils in California.

Eight (8) soil vapor probes were advanced near the soil boring locations. A shallow (five foot bgs) and a deep (10-15 feet bgs) soil vapor sample were collected and analyzed for VOCs. PCE was detected in one boring (SB-2) below the CHHSL. Chloroform was detected in three borings (SB-2, SB-3, and SB-5) and is most likely a by-product of the wastewater disinfection process. There are no established CHHSLs for chloroform. Chloroform was also detected in groundwater samples just above the laboratory reporting limit and well below the MCLs. Methylene chloride and acetone are commonly used to wash glassware used in analytical testing and are periodically detected at low concentrations in soil vapor in waste water disposal areas.

Five groundwater samples were collected and analyzed from the groundwater monitoring wells at the Site to evaluate if impacts exist in groundwater. Analytes (VOCs, SVOCs, and perchlorate) were either not detected above laboratory reporting limits or were detected below the MCLs for drinking water.

A complete list of laboratory analytical results is provided as an attachment.

In summary, soil, soil vapor, and groundwater samples were collected from the Site. No samples exceeded their respective screening levels for commercial/industrial soil, with the exception of arsenic. Based on the data collected, there is no apparent threat to human health or other sensitive receptors.

5.0 SITE REDEVELOPMENT

The Site is planned for redevelopment activities including excavation and regrading. Even though the results of the soil, soil vapor, and groundwater did not identify any contaminants at levels of concern, any excavated soil should be tested to determine if it is waste that should be disposed of at an appropriate disposal facility. The concentrations of chemicals that a disposal facility will accept varies. Therefore, the soil should be characterized, and profiled and approved for acceptance at the disposal facility, if necessary, prior to hauling the soil off-site.

6.0 CLOSING

The findings of this report are based on field observations and analytical results provided by an independent laboratory. Interpretations of subsurface conditions at the Site for the purpose of this investigation are based on limited data collected under standard protocol. No warranty expressed or implied is made to the professional conclusions in this report.

Golder appreciates the opportunity to assist RMC with this project. If there are any questions concerning this report, please contact Kristina Byrne at 714-508-4400.

Sincerely,

GOLDER ASSOCIATES INC.

Kristina Byrne, P.E.
Project Engineer

Stephen T. Lofholm, PG
Associate

cc:

Attachments: Figures

Tables

Attachment A - Photo Log of Site and Sampling Activities

Attachment B - Boring Logs

Attachment C - Laboratory Analytical Results

Attachment D - Soil Vapor Report

Attachment E - Groundwater Sampling Forms

KB/SL

FIGURES

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1,000 0 1,000 Feet

REFERENCES

1. COORDINATE SYSTEM: NAD 1983 StatePlane California V FIPS 0405 Feet
2. Imagery provided by ESRI online mapping service.

PROJECT

RMC CCWWTP PHASE II ESA
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

TITLE

SITE LOCATION MAP

Golder Associates

PROJECT NO. 1521576			FILE No.	1521576PHII-01.mxd
DESIGN	KB	4/7/2015	SCALE: AS SHOWN	REV. 0
GIS	KJK	4/7/2015		
CHECK	KB	4/7/2015		
REVIEW	JB	4/7/2015		

FIGURE 1

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LEGEND

- GROUNDWATER MONITORING WELL
- SOIL BORING/SOIL VAPOR PROBE LOCATION

NOTE

1. LOCATION OF BORINGS AND WELLS ARE APPROXIMATE.

110 0 110 Feet

REFERENCES

1. COORDINATE SYSTEM: NAD 1983 StatePlane California V FIPS 0405 Feet
2. Imagery provided by ESRI online mapping service.

PROJECT

RMC CCWWTP PHASE II ESA
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

TITLE

BORING LOCATION MAP

Golder Associates

PROJECT NO. 1521576			FILE No.	1521576PHII-02.mxd
DESIGN	KB	4/7/2015	SCALE: AS SHOWN	REV. 0
GIS	KJK	4/7/2015		
CHECK	KB	4/7/2015		
REVIEW	JB	4/7/2015		

FIGURE 2

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBON

CIVIC CENTER WASTEWATER TREATMENT PLANT
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

Sample ID	Depth (Feet)	Total Petroleum Hydrocarbons (mg/kg)		
		GRO	DRO	ORO
SB1-5	5	ND < 0.4	ND < 5.0	16
SB2-5	5	ND < 0.4	2.8 J	16
SB3-5	5	ND < 0.4	ND < 5.0	6.1
SB3-20	20	ND < 0.4	ND < 5.0	6.2
SB4-5	5	ND < 0.4	ND < 4.9	4.1 J
SB5-5	5	ND < 0.4	ND < 5.0	4.1 J
SB6-5	5	ND < 0.4	4.2 J	13
SB7-5	5	ND < 0.4	ND < 5.0	7.0
SB8-5	5	ND < 0.4	4.5 J	8.6
SSLs	--	***100***	***100***	***1,000***

Notes:
mg/kg - milligrams per kilogram
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
ORO - Oil Range Organics
ND - Non-detect above laboratory reporting limits.
NA - Not analyzed
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
SSLs - Los Angeles Regional Water Quality Control Board's Soil Screening Levels (SSL) for soil where groundwater is 20 feet or less below soil.

TABLE 2
SOIL ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND SEMI-VOLATILE ORGANIC COMPOUNDS

CIVIC CENTER WASTEWATER TREATMENT PLANT
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

Sample ID	Depth (Feet)	Volatile Organic Compounds (mg/kg)		Semi-Volatile Organic Compounds (mg/kg)	
		Methylene Chloride	Remaining	Bis (2-ethylhexyl) phthalate	Remaining
SB1-1	1	NA	NA	ND < 0.33	ND < 0.33
SB1-5	5	ND < 0.02	ND < 0.005	ND < 0.33	ND < 0.33
SB2-1	1	NA	NA	ND < 0.33	ND < 0.33
SB2-5	5	ND < 0.02	ND < 0.005	0.31 J	ND < 0.33
SB3-1	1	NA	NA	ND < 0.68	ND < 0.68
SB3-5	5	ND < 0.02	ND < 0.005	ND < 0.32	ND < 0.32
SB3-20	20	0.013 J	ND < 0.005	ND < 0.66	ND < 0.66
SB4-1	1	NA	NA	ND < 0.33	ND < 0.33
SB4-5	5	ND < 0.02	ND < 0.005	ND < 0.33	ND < 0.33
SB5-1	1	NA	NA	ND < 0.32	ND < 0.32
SB5-5	5	ND < 0.02	ND < 0.005	ND < 0.33	ND < 0.33
SB6-1	1	NA	NA	ND < 0.33	ND < 0.33
SB6-5	5	ND < 0.02	ND < 0.005	ND < 0.32	ND < 0.32
SB7-1	1	NA	NA	ND < 0.32	ND < 0.32
SB7-5	5	ND < 0.02	ND < 0.005	ND < 0.32	ND < 0.32
SB8-1	1	NA	NA	ND < 0.33	ND < 0.33
SB8-5	5	ND < 0.02	ND < 0.005	ND < 0.33	ND < 0.33
RSLs	--	***320***	**-**	***160***	**-**

Notes:
mg/kg - milligrams per kilogram
ND - Non-detect above laboratory reporting limits.
NA - Not analyzed
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
RSLs - EPA Region 9 Regional Screening Level (RSLs) for industrial soils dated January 2015.

TABLE 3
SOIL ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS AND ORGANOCHLORINE PESTICIDES

CIVIC CENTER WASTEWATER TREATMENT PLANT
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

Sample ID	Depth (Feet)	Polychlorinated Biphenyls (mg/kg)	Organochlorine Pesticides (mg/kg)			
			4,4'-DDE	4,4'-DDT	Chlordane	Remaining
SB1-1	1	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB1-5	5	ND < 0.05	0.0018 J	ND < 0.005	0.023 J	ND < 0.005
SB2-1	1	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB2-5	5	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB3-1	1	ND < 0.1	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB3-5	5	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB3-20	20	ND < 0.1	ND < 0.01	ND < 0.01	ND < 0.10	ND < 0.01
SB4-1	1	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB4-5	5	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB5-1	1	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB5-5	5	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB6-1	1	ND < 0.05	0.0038 J	0.0026 J	ND < 0.05	ND < 0.005
SB6-5	5	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB7-1	1	ND < 0.05	0.0017 J	ND < 0.005	ND < 0.05	ND <0.005
SB7-5	5	ND < 0.05	ND < 0.005	ND < 0.005	ND < 0.05	ND < 0.005
SB8-1	1	ND < 0.05	ND <0.005	ND <0.005	ND < 0.05	ND <0.005
SB8-5	5	ND < 0.05	ND <0.005	ND <0.005	ND < 0.05	ND <0.005
RSLs	--	***-***	***6.8***	***8.6***	***8.0***	***-***

Notes:
mg/kg - milligrams per kilogram
ND - Non-detect above laboratory reporting limits.
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
RSLs - EPA Region 9 Regional Screening Level (RSLs) for industrial soil dated January 2015.

TABLE 4
SOIL ANALYTICAL RESULTS
METALS

CIVIC CENTER WASTEWATER TREATMENT PLANT
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

Sample ID	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Silver (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SB1-1	***3.7***	170	0.39 J	ND < 0.49	38	11	20	42	0.067	ND < 2.0	32	1.6	38	46
SB1-5	***3.5***	140	0.38 J	ND < 0.50	34	10	17	7.4	0.045	ND < 2.0	29	1.8	37	44
SB2-1	2.6 J	210	0.39 J	0.40 J	52	20	26	5.8	0.039	ND < 2.0	65	1.2 J	47	53
SB2-5	2.5 J	270	0.39 J	ND < 0.50	45	18	25	9.4	0.019 J	ND < 2.0	52	1.0 J	42	51
SB3-1	***3.4***	100	0.48 J	1.2	50	24	36	3.0	0.020	1.5 J	84	1.6	33	60
SB3-5	2.5 J	400	0.43 J	0.28 J	60	36	36	1.5 J	0.013 J	ND < 2.0	95	1.8	48	58
SB3-20	ND < 3.0	400	0.3 J	ND < 0.50	92	28	28	ND < 2.0	0.028	ND < 2.0	110	1.2 J	46	56
SB4-1	***5.4***	85	0.44 J	0.82	35	18	30	4.4	0.024	ND < 2.0	58	0.84 J	36	51
SB4-5	ND < 3.0	380	ND < 0.50	ND < 0.50	64	27	43	ND < 2.0	0.021	ND < 2.0	71	1.1 J	30	73
SB5-1	***5.1***	49	0.34 J	ND < 0.50	25	6.6	15	46	0.020	ND < 2.0	17	ND < 1.5	23	31
SB5-5	***4.8***	35	ND < 0.49	ND < 0.49	20	5.1	8.6	2.9	ND < 0.02	ND < 2.0	19	ND < 1.5	20	23
SB6-1	***5.0***	97	0.34 J	0.53	27	9.0	16	11	0.037	ND < 2.0	28	ND < 1.5	32	46
SB6-5	***5.9***	43	0.33 J	ND < 0.50	24	5.9	18	4.7	0.034	ND < 2.0	16	ND < 1.5	27	39
SB7-1	***4.2***	50	0.35 J	0.26 J	25	6.8	11	19	0.018 J	ND < 2.0	21	ND < 1.5	28	35
SB7-5	***4.7***	40	0.34 J	ND < 0.50	22	6.2	9.7	3.7	0.071	ND < 2.0	18	ND < 1.5	24	22
SB8-1	2.7 J	38	0.26 J	ND < 0.50	17	5.5	8.4	6.1	0.020	ND < 2.0	14	ND < 1.5	20	20
SB8-5	***4.1***	57	0.37 J	ND < 0.50	23	7.0	19	5.2	0.12 J	ND < 2.0	18	ND < 1.5	25	34
RSLs	***3.00***	***22,000***	***230***	***98***	***180,000***	***35***	***4,700***	***800***	***4.0***	***580***	***2,200***	***580***	***580***	***35,000***

Notes:
mg/kg - milligrams per kilogram
ND - Non-detect above laboratory practical quantitation limits.
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
RSLs - Regional Screening Levels (RSLs) for industrial soils obtained from US EPA Region 9's RSL Summary Table, May 2014
Bold and italicized indicates the detection exceeds the EPA RSLs for industrial soils

TABLE 5
SOIL VAPOR ANALYTICAL RESULTS

CIVIC CENTER WASTEWATER TREATMENT PLANT
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

Sample ID	Volatile Organic Compounds (µg/L)	
	Chloroform	Tetrachloroethene
SV-1-5	ND	ND
SV-1-15	ND	ND
SV-2-5	ND	ND
SV-2-11	17.06	0.11
SV-3-5	ND	ND
SV-3-10	4.02	ND
SV-4-5	ND	ND
SV-4-13	ND	ND
SV-5-5	3.21	ND
SV-5-15	13.23	ND
SV-6-5	ND	ND
SV-7-5	ND	ND
SV-7-15	ND	ND
SV-8-5	ND	ND
SV-8-15	ND	ND
CHHSLs	***NE***	***0.603***

Notes:
µg/L - micrograms per liter
ND - Non-detect above laboratory reporting limit.
NE - Not established
CHHSLs - California Human Health Screening Levels (CHHSLs) for shallow soil gas at commercial/industrial properties dated January 2005.

TABLE 6
GROUNDWATER ANALYTICAL RESULTS

CIVIC CENTER WASTEWATER TREATMENT PLANT
24000 CIVIC CENTER WAY
MALIBU, CALIFORNIA

Sample ID	Volatile Organic Compounds (µg/L)			Semi-Volatile Organic Compounds (µg/L)	Perchlorate (µg/L)
	Methylene Chloride	Acetone	Chloroform	Diethyl Phthalate	
MW-1	1.1 J	ND < 4.5	ND < 0.25	2.1	ND < 0.95
MW-2	0.92 J	ND < 4.5	ND < 0.25	ND < 2.4	ND < 4.8
MW-3	0.95 J	ND < 4.5	0.59	ND < 0.48	ND < 0.95
MW-4	0.91 J	ND < 4.5	ND < 0.25	ND < 0.48	ND < 0.95
MW-5	ND < 0.88	26	1.0	ND < 0.48	ND < 0.95
MCLs	***5.0***	***NE***	***80***	***NE***	***6***

Notes:
µg/L - micrograms per liter
ND - Non-detect above laboratory method detection limits.
NE - Not established
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
MCLs - EPA's Maximum Contaminant Levels (MCLs) for drinking water dated July 2014.

ATTACHMENT A
PHOTO LOG OF SITE AND SAMPLING ACTIVITIES

Project Title: Malibu Phase II ESA

PHOTO 1 View of Subject Property and leach field lines and seepage pits.	
PHOTO 2 View of on-site wastewater treatment plant.	

PHOTO 3

View of mobile soil vapor lab.

PHOTO 4

View of soil vapor probe.

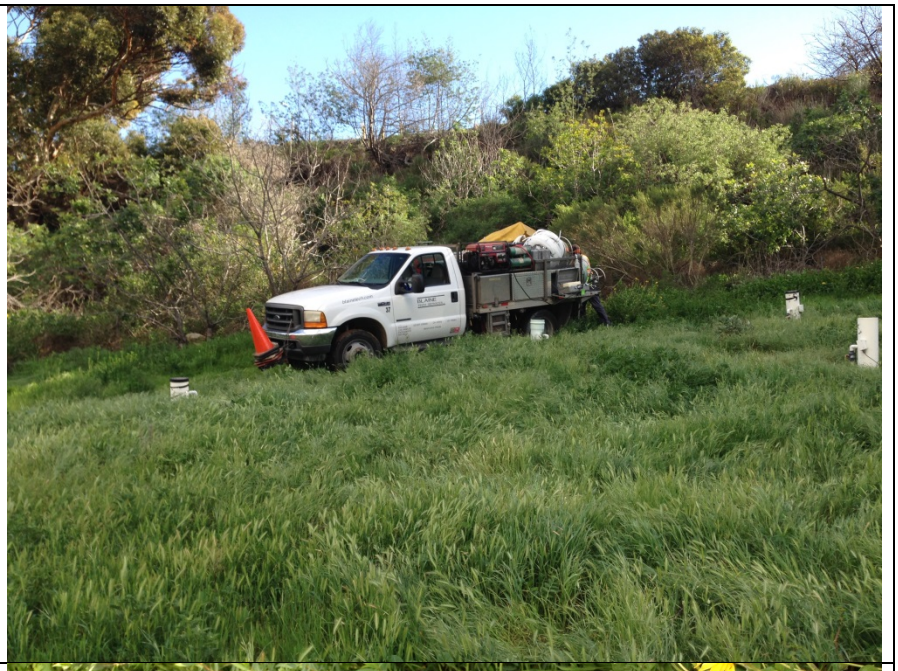
PHOTO 5 View of monitoring well truck.	
PHOTO 6 View of monitoring well during purging.	

PHOTO 7 View of soil cuttings during drilling.	
PHOTO 8 View of black layer encountered during drilling SB3.	

ATTACHMENT B
BORING LOGS

REPORT OF BOREHOLE: SB1

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling					Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
Hollow Stem Auger		1		0						SM	(SC) Silty SAND; brown; no odor.	0.0
											fine grained; moist.	0.0
		1		5								
					9.0					SC	(SC) Clayey SAND; fine grained; brown; moist; no odor.	
		1.5		10				4 4 6				0.0
		1.5		15				2 3 4				0.0
		1.5		20	20.0			3 4 5				0.0

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

REPORT OF BOREHOLE: SB2

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling				Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
Hollow Stem Auger		1		0						SM	(SM) Silty SAND; fine grained; brown; moist; no odor.	0.0
		1		5								
		1.5		10	9.0			6 8 6		SC	(SC) Clayey SAND; fine grained; brown; moist; no odor.	0.4
		1.5		15				2 3 4				0.3
		1.5		20	20.0			4 5 6				0.2

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

REPORT OF BOREHOLE: SB3

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling				Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
Hollow Stem Auger		1		0						SM	(SM) Silty SAND; fine grained; brown; moist; no odor.	
		1		5								0.0
		1.5		10	10.0			3 7 8		SC	(SC) Sandy CLAY; fine grained; brown; moist; no odor. fine gravel.	0.3
		1.5		15	15.0			6 7 10		MH	(MH) Clayey SILT; black brown; moist; slight odor; green mottling.	0.3
		1.5		20	20.0			2 3 3			black; slight odor.	0.7

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

REPORT OF BOREHOLE: SB4

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling					Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
Hollow Stem Auger		1		0						SM	(SM) Silty SAND; fine grained; light yellow brown; dry; no odor.	0.0
		1		5								0.0
		1.5		10				9 11 14			brown; moist; slight sewage odor; orange brown, white, and yellow mottling.	2.9
		1.5		15				6 12 17			yellow, white, orange, and brown; no odor.	0.9
		1.5		20	20.0			10 21 27				0.0

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

REPORT OF BOREHOLE: SB5

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling					Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
Hollow Stem Auger		1		0						SM	(SM) Silty SAND; fine grained; brown; moist; no odor.	0.0
		1		5								0.0
		1.5		10				6 6 4				0.5
					14.0					SM ML	(SM-ML) Sandy SILT; fine grained; brown; moist; no odor.	
		1.5		15				4 5 6				0.3
		1.5		20	20.0			4 7 15				0.0

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

REPORT OF BOREHOLE: SB6

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling				Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
		1		0						SW	(SW) SAND; fine to medium grained; brown; dry; no odor.	0.0
		1		5				9 11 15				0.0
		0		10							Fine gravel.	0.0
		1.5			11.0			8 6 4		SM	(SM) Silty SAND; fine grained; white brown; moist; no odor.	0.0
		1.5		15	15.0			5 6 8		SC	(SC) Clayey SAND; fine grained; brown; moist; no odor.	0.0
		1.5		20	20.0			3 5 7				

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

REPORT OF BOREHOLE: SB7

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling					Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
				0						SM	(SM) Silty SAND; fine grained; brown; moist; no odor.	
		1										0.0
		1		5								0.0
											fine to medium grained; white brown.	
		1.5		10				7 9 7				0.0
											fine grained; brown.	
		1.5		15				4 6 10				0.0
		1.5		20	20.0			4 5 7				

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

REPORT OF BOREHOLE: SB8

CLIENT: RMC
PROJECT: Malibru Former WWTP Phase II ESA
LOCATION: Malibu, California
PROJECT NO.: 1521576

DRIVE WEIGHT:
DROP DISTANCE:
BOREHOLE LOCATION: Malibu, CA
ELEVATION:
DATUM:
INCLINATION: -90°

SHEET: 1 OF 1
DRILLING CONTRACTOR: Martini
DRILL RIG: HSA
LOGGED: K. Byrne DATE: 2/24/15
CHECKED: S. Lofholm DATE: 4/6/15

Drilling						Sampling					Material Description	
METHOD	BLOW COUNTS	RECOVERY	WATER	DEPTH feet	LAYER ELEVATION	SAMPLE OR FIELD TEST	SAMPLE TYPE	BLOWS PER FOOT	GRAPHIC LOG	USCS	Density. Soil Name. Color. Moisture. Minor Components	PID (in ppm)
				0						SM	(SM) Silty SAND; fine grained; brown; moist; no odor.	
		1										
		1.5		5				5 12 13				
		1.5		10				3 5 7				0.1
											wet.	
		1.5		15				3 5 6				1.5
		1.5		20	20.0			5 9 6		SW	(SW) SAND; fine grained; white brown; moist; no odor.	

Report of borehole must be read in conjunction with accompanying notes and abbreviations

ENVIRO LOG NO WELL MODIFIED 1521576 MALIBU PH II.GPJ GLDR_IRV.GDT 4/7/15

ATTACHMENT C
LABORATORY ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-102760-1
Client Project/Site: RMC Malibu Phase II; ESA

For:
Golder Associates Inc.
230 Commerce, Suite 200
Irvine, California 92602

Attn: Kristina Byrne

Authorized for release by:
3/10/2015 12:46:23 PM

Kathleen Robb, Project Manager II
(949)261-1022
kathleen.robb@testamericainc.com

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Sample Summary

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-102760-1	SB8-1	Solid	02/24/15 07:20	02/25/15 09:10
440-102760-2	SB8-5	Solid	02/24/15 07:30	02/25/15 09:10
440-102760-6	SB7-1	Solid	02/24/15 08:20	02/25/15 09:10
440-102760-7	SB7-5	Solid	02/24/15 08:30	02/25/15 09:10
440-102760-11	SB5-1	Solid	02/24/15 09:40	02/25/15 09:10
440-102760-12	SB5-5	Solid	02/24/15 09:50	02/25/15 09:10
440-102760-16	SB6-1	Solid	02/24/15 10:30	02/25/15 09:10
440-102760-17	SB6-5	Solid	02/24/15 10:40	02/25/15 09:10
440-102760-21	SB4-1	Solid	02/24/15 12:30	02/25/15 09:10
440-102760-22	SB4-5	Solid	02/24/15 12:40	02/25/15 09:10
440-102760-26	SB3-1	Solid	02/24/15 13:40	02/25/15 09:10
440-102760-27	SB3-5	Solid	02/24/15 13:50	02/25/15 09:10
440-102760-30	SB3-20	Solid	02/24/15 14:20	02/25/15 09:10
440-102760-31	SB1-1	Solid	02/24/15 16:00	02/25/15 09:10
440-102760-32	SB1-5	Solid	02/24/15 16:10	02/25/15 09:10
440-102760-36	SB2-1	Solid	02/24/15 16:50	02/25/15 09:10
440-102760-37	SB2-5	Solid	02/24/15 17:00	02/25/15 09:10

Job ID: 440-102760-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-102760-1

Comments
No additional comments.

Receipt
The samples were received on 2/25/2015 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.2º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 239632 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol and Pentachlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270C: The following samples contained j-flag value results for Benzoic Acid: (MB 440-239632/1-A). These results may be biased high due to a potential high bias at the low end of the calibration curve for this compound.

Method(s) 8270C: The continuing calibration verification (CCV) associated with batch 241228 recovered above the upper control limit for 4-Chloroaniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 440-241228/2), SB1-1 (440-102760-31), SB1-5 (440-102760-32), SB2-1 (440-102760-36), SB3-1 (440-102760-26), SB3-5 (440-102760-27), SB4-5 (440-102760-22), SB5-1 (440-102760-11), SB5-5 (440-102760-12), SB6-1 (440-102760-16), SB7-5 (440-102760-7), SB8-1 (440-102760-1), SB8-5 (440-102760-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The following sample(s) required a dilution due to the nature of the sample matrix: (440-102960-1 MS), (440-102960-1 MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 240118 recovered above the upper control limit for toxaphene, Endrin, and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 440-240118/6), (CCV 440-240118/8), SB1-1 (440-102760-31), SB1-5 (440-102760-32), SB2-1 (440-102760-36), SB2-5 (440-102760-37), SB3-1 (440-102760-26), SB3-20 (440-102760-30), SB3-5 (440-102760-27), SB4-1 (440-102760-21), SB4-5 (440-102760-22), SB5-1 (440-102760-11), SB5-5 (440-102760-12), SB6-1 (440-102760-16), SB6-5 (440-102760-17), SB7-1 (440-102760-6), SB7-5 (440-102760-7), SB8-1 (440-102760-1), SB8-5 (440-102760-2).

Method(s) 8081A: The continuing calibration verification (CCV) associated with batch 240118 recovered above the upper control limit for toxaphene, 4,4 DDD, DDE, and DDT, beta, delta, gamma BHCs, Dieldrin, Endosulfan II, Endosulfan sulfate, Endrin, Endrin ketone, Heptachlor, Heptachlor epoxide, and Methoxychlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 440-240118/30), (CCV 440-240118/32), SB1-1 (440-102760-31), SB1-5 (440-102760-32), SB2-1 (440-102760-36), SB2-5 (440-102760-37), SB3-1 (440-102760-26), SB3-20 (440-102760-30), SB3-5 (440-102760-27), SB4-1 (440-102760-21), SB4-5 (440-102760-22), SB5-1 (440-102760-11), SB5-5 (440-102760-12), SB6-1 (440-102760-16), SB6-5 (440-102760-17), SB7-1 (440-102760-6), SB7-5 (440-102760-7), SB8-1 (440-102760-1), SB8-5 (440-102760-2).

Method(s) 8081A: The closing continuing calibration verification (CCV) standard associated with batch 240417 failed to meet acceptance limits. The associated samples were re-analyzed following a successful CCV and produced similar results, indicating that the sample

Job ID: 440-102760-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

matrix is adversely affecting the instrument and causing the failures. (CCV 440-240417/10), SB1-5 (440-102760-32), SB6-1 (440-102760-16), SB7-1 (440-102760-6)

Method(s) 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: (LCS 440-239684/2-A), (MB 440-239684/1-A), SB3-20 (440-102760-30).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided. Method: 3546-8270 REGULAR; Batch number: 239632.

Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix .Elevated reporting limits (RLs) are provided. Method: 3546-8082 PCB; Batch number: 239684.

Method(s) 3546: The following sample(s) was diluted due to the nature of the sample matrix: Elevated reporting limits (RLs) are provided. Method 3546-8081 PESTICIDES; SoilsBatch number 240107.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB8-1
Date Collected: 02/24/15 07:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-1
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
1,2-Dichlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2,4,6-Trichlorophenol	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2,4-Dichlorophenol	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2,4-Dinitrophenol	ND	*	0.65	0.33	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2,4-Dinitrotoluene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2,6-Dinitrotoluene	ND		0.33	0.094	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2-Chloronaphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2-Chlorophenol	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2-Methylnaphthalene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2-Methylphenol	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2-Nitroaniline	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
3,3'-Dichlorobenzidine	ND		0.82	0.15	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
4-Bromophenyl phenyl ether	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
4-Chloro-3-methylphenol	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
4-Chlorophenyl phenyl ether	ND		0.33	0.084	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
4-Nitroaniline	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
4-Nitrophenol	ND	*	0.82	0.14	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Acenaphthene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Acenaphthylene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Aniline	ND		0.42	0.084	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Anthracene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzidine	ND		1.3	0.65	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzo[a]anthracene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzo[a]pyrene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzo[b]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzo[k]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzoic acid	ND		0.82	0.34	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Bis(2-chloroethyl)ether	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Butyl benzyl phthalate	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Chrysene	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Dibenz(a,h)anthracene	ND		0.42	0.099	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Dibenzofuran	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1

Client Sample ID: SB8-1
Date Collected: 02/24/15 07:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-1
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		0.33	0.094	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Dimethyl phthalate	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Di-n-butyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Di-n-octyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Fluorene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Hexachlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Hexachlorocyclopentadiene	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Isophorone	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Naphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Nitrobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
N-Nitrosodimethylamine	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
N-Nitrosodi-n-propylamine	ND		0.25	0.069	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
N-Nitrosodiphenylamine	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Pentachlorophenol	ND	*	0.82	0.34	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Phenanthrene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Phenol	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 00:34	1
Pyrene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*35 - 120*	*02/28/15 12:20*	*03/09/15 00:34*	*1*
2-Fluorophenol (Surr)	*72*		*25 - 120*	*02/28/15 12:20*	*03/09/15 00:34*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*35 - 125*	*02/28/15 12:20*	*03/09/15 00:34*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 120*	*02/28/15 12:20*	*03/09/15 00:34*	*1*
Terphenyl-d14 (Surr)	*78*		*40 - 135*	*02/28/15 12:20*	*03/09/15 00:34*	*1*
Phenol-d6 (Surr)	*73*		*35 - 120*	*02/28/15 12:20*	*03/09/15 00:34*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Chlordane (technical)	ND		0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:25	1

Client Sample ID: SB8-1

Lab Sample ID: 440-102760-1

Date Collected: 02/24/15 07:20

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:25	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 115*	*03/03/15 10:43*	*03/03/15 18:25*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*03/03/15 10:43*	*03/03/15 18:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 19:49	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 19:49	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 19:49	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 19:49	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 19:49	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 19:49	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*03/01/15 09:28*	*03/03/15 19:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Arsenic	**2.7**	**J**	3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Barium	**38**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Beryllium	**0.26**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Chromium	**17**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Cobalt	**5.5**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Copper	**8.4**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Lead	**6.1**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Nickel	**14**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Silver	ND		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Vanadium	**20**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 16:54	5
Zinc	**20**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 16:54	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 05:02	1

Client Sample ID: SB8-5

Lab Sample ID: 440-102760-2

Date Collected: 02/24/15 07:30

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
1,1,1-Trichloroethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB8-5
Date Collected: 02/24/15 07:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-2
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,1,2-Trichloroethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,1-Dichloroethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,1-Dichloroethene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
1,1-Dichloropropene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,2,3-Trichlorobenzene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
1,2,3-Trichloropropane	ND		0.0097	0.00097	mg/Kg			02/28/15 17:57	1
1,2,4-Trichlorobenzene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
1,2,4-Trimethylbenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,2-Dibromo-3-Chloropropane	ND		0.0049	0.0019	mg/Kg			02/28/15 17:57	1
1,2-Dibromoethane (EDB)	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,2-Dichlorobenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,2-Dichloroethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,2-Dichloropropane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,3,5-Trimethylbenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,3-Dichlorobenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,3-Dichloropropane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
1,4-Dichlorobenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
2,2-Dichloropropane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
2-Chlorotoluene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
4-Chlorotoluene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Benzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Bromobenzene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Bromochloromethane	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Bromodichloromethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Bromoform	ND		0.0049	0.0019	mg/Kg			02/28/15 17:57	1
Bromomethane	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Carbon tetrachloride	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Chlorobenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Chloroethane	ND		0.0049	0.0019	mg/Kg			02/28/15 17:57	1
Chloroform	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Chloromethane	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
cis-1,2-Dichloroethene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
cis-1,3-Dichloropropene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Dibromochloromethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Dibromomethane	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Dichlorodifluoromethane	ND		0.0049	0.0019	mg/Kg			02/28/15 17:57	1
Ethylbenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Hexachlorobutadiene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Isopropylbenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
m,p-Xylene	ND		0.0039	0.0019	mg/Kg			02/28/15 17:57	1
Methylene Chloride	ND		0.019	0.0049	mg/Kg			02/28/15 17:57	1
Naphthalene	ND		0.0049	0.0019	mg/Kg			02/28/15 17:57	1
n-Butylbenzene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
N-Propylbenzene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
o-Xylene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
p-Isopropyltoluene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
sec-Butylbenzene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Styrene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB8-5
Date Collected: 02/24/15 07:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-2
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Tetrachloroethene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Toluene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
trans-1,2-Dichloroethene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
trans-1,3-Dichloropropene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Trichloroethene	ND		0.0019	0.00097	mg/Kg			02/28/15 17:57	1
Trichlorofluoromethane	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1
Vinyl chloride	ND		0.0049	0.00097	mg/Kg			02/28/15 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*79 - 123*		*02/28/15 17:57*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*		*02/28/15 17:57*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*02/28/15 17:57*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2,4-Dinitrophenol	ND	*	0.66	0.33	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2,4-Dinitrotoluene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2,6-Dinitrotoluene	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
3,3'-Dichlorobenzidine	ND		0.83	0.15	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
4-Chlorophenyl phenyl ether	ND		0.33	0.085	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
4-Nitroaniline	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
4-Nitrophenol	ND	*	0.83	0.14	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Acenaphthene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Aniline	ND		0.42	0.085	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Anthracene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Benzidine	ND		1.3	0.66	mg/Kg		02/28/15 12:20	03/09/15 00:55	1

Client Sample ID: SB8-5
Date Collected: 02/24/15 07:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-2
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Benzoic acid	ND		0.83	0.34	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Butyl benzyl phthalate	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Chrysene	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Dibenz(a,h)anthracene	ND		0.42	0.10	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Diethyl phthalate	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Di-n-butyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Di-n-octyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Fluorene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Hexachlorocyclopentadiene	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Isophorone	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Naphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
N-Nitrosodimethylamine	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
N-Nitrosodiphenylamine	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Pentachlorophenol	ND	*	0.83	0.34	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Phenanthrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Phenol	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 00:55	1
Pyrene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*35 - 120*	*02/28/15 12:20*	*03/09/15 00:55*	*1*
2-Fluorophenol (Surr)	*77*		*25 - 120*	*02/28/15 12:20*	*03/09/15 00:55*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*35 - 125*	*02/28/15 12:20*	*03/09/15 00:55*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 120*	*02/28/15 12:20*	*03/09/15 00:55*	*1*
Terphenyl-d14 (Surr)	*84*		*40 - 135*	*02/28/15 12:20*	*03/09/15 00:55*	*1*
Phenol-d6 (Surr)	*79*		*35 - 120*	*02/28/15 12:20*	*03/09/15 00:55*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/26/15 23:15	1

Client Sample ID: SB8-5
Date Collected: 02/24/15 07:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*		*02/26/15 23:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	4.5	J	5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 13:12	1
ORO (C23-C40)	8.6		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*95*		*40 - 140*	*02/27/15 07:40*	*02/27/15 13:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Chlordane (technical)	ND		0.050	0.0099	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
delta-BHC	ND		0.0099	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Endosulfan sulfate	ND		0.0099	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:39	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*80*		*35 - 115*	*03/03/15 10:43*	*03/03/15 18:39*	*1*
DCB Decachlorobiphenyl (Surr)	*98*	*p*	*45 - 120*	*03/03/15 10:43*	*03/03/15 18:39*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:03	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:03	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:03	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:03	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:03	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:03	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*03/01/15 09:28*	*03/03/15 20:03*	*1*

Client Sample ID: SB8-5

Lab Sample ID: 440-102760-2

Date Collected: 02/24/15 07:30

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Arsenic	**4.1**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Barium	**57**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Beryllium	**0.37**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Chromium	**23**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Cobalt	**7.0**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Copper	**19**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Lead	**5.2**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Nickel	**18**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Silver	ND		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Vanadium	**25**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:00	5
Zinc	**34**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:00	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.020	0.012	mg/Kg		02/27/15 17:50	02/28/15 03:04	1

Client Sample ID: SB7-1

Lab Sample ID: 440-102760-6

Date Collected: 02/24/15 08:20

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
1,2-Dichlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
1,3-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
1,4-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2,4,5-Trichlorophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2,4,6-Trichlorophenol	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2,4-Dichlorophenol	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2,4-Dimethylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2,4-Dinitrophenol	ND	*	0.64	0.32	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2,4-Dinitrotoluene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2,6-Dinitrotoluene	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2-Chloronaphthalene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2-Chlorophenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2-Methylnaphthalene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2-Methylphenol	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2-Nitroaniline	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
2-Nitrophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
3,3'-Dichlorobenzidine	ND		0.81	0.15	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
3-Methylphenol + 4-Methylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
3-Nitroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
4,6-Dinitro-2-methylphenol	ND	*	0.41	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB7-1
Date Collected: 02/24/15 08:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-6
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
4-Chloro-3-methylphenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
4-Chloroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
4-Chlorophenyl phenyl ether	ND		0.32	0.083	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
4-Nitroaniline	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
4-Nitrophenol	ND	*	0.81	0.14	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Acenaphthene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Acenaphthylene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Aniline	ND		0.41	0.083	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Anthracene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzidine	ND		1.3	0.64	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzo[a]anthracene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzo[a]pyrene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzo[b]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzo[g,h,i]perylene	ND		0.32	0.11	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzo[k]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzoic acid	ND		0.81	0.33	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Benzyl alcohol	ND		0.32	0.15	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
bis (2-chloroisopropyl) ether	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Bis(2-chloroethoxy)methane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Bis(2-chloroethyl)ether	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Bis(2-ethylhexyl) phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Butyl benzyl phthalate	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Chrysene	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Dibenz(a,h)anthracene	ND		0.41	0.098	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Dibenzofuran	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Diethyl phthalate	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Dimethyl phthalate	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Di-n-butyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Di-n-octyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Fluorene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Hexachlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Hexachlorobutadiene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Hexachlorocyclopentadiene	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Hexachloroethane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Indeno[1,2,3-cd]pyrene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Isophorone	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Naphthalene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Nitrobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
N-Nitrosodimethylamine	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
N-Nitrosodi-n-propylamine	ND		0.24	0.068	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
N-Nitrosodiphenylamine	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Pentachlorophenol	ND	*	0.81	0.33	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Phenanthrene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Phenol	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 04:12	1
Pyrene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*35 - 120*	*02/28/15 12:20*	*03/07/15 04:12*	*1*

Client Sample ID: SB7-1
Date Collected: 02/24/15 08:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-6
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	*65*		*25 - 120*	*02/28/15 12:20*	*03/07/15 04:12*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*35 - 125*	*02/28/15 12:20*	*03/07/15 04:12*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 120*	*02/28/15 12:20*	*03/07/15 04:12*	*1*
Terphenyl-d14 (Surr)	*66*		*40 - 135*	*02/28/15 12:20*	*03/07/15 04:12*	*1*
Phenol-d6 (Surr)	*70*		*35 - 120*	*02/28/15 12:20*	*03/07/15 04:12*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
4,4'-DDE	**0.0017**	**J**	0.0050	0.0015	mg/Kg		03/03/15 10:43	03/04/15 15:41	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Chlordane (technical)	ND		0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 18:52	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*68*		*35 - 115*	*03/03/15 10:43*	*03/03/15 18:52*	*1*
Tetrachloro-m-xylene	*72*		*35 - 115*	*03/03/15 10:43*	*03/04/15 15:41*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*45 - 120*	*03/03/15 10:43*	*03/03/15 18:52*	*1*
DCB Decachlorobiphenyl (Surr)	*104*		*45 - 120*	*03/03/15 10:43*	*03/04/15 15:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:16	1
Aroclor 1221	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:16	1
Aroclor 1232	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:16	1
Aroclor 1242	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:16	1
Aroclor 1248	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:16	1
Aroclor 1254	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:16	1
Aroclor 1260	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*03/01/15 09:28*	*03/03/15 20:16*	*1*

Client Sample ID: SB7-1

Lab Sample ID: 440-102760-6

Date Collected: 02/24/15 08:20

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Arsenic	**4.2**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Barium	**50**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Beryllium	**0.35**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Cadmium	**0.26**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Chromium	**25**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Cobalt	**6.8**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Copper	**11**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Lead	**19**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Nickel	**21**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Silver	ND		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Vanadium	**28**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:02	5
Zinc	**35**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:02	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 05:00	1

Client Sample ID: SB7-5

Lab Sample ID: 440-102760-7

Date Collected: 02/24/15 08:30

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
1,1,1-Trichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,1,2-Trichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,1-Dichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,1-Dichloroethene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
1,1-Dichloropropene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,2,3-Trichlorobenzene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
1,2,3-Trichloropropane	ND		0.0099	0.00099	mg/Kg			02/28/15 18:26	1
1,2,4-Trichlorobenzene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/Kg			02/28/15 18:26	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,2-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,2-Dichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,3-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,3-Dichloropropane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
1,4-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
2,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
2-Chlorotoluene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
4-Chlorotoluene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB7-5
Date Collected: 02/24/15 08:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-7
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Bromobenzene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Bromochloromethane	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Bromodichloromethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Bromoform	ND		0.0050	0.0020	mg/Kg			02/28/15 18:26	1
Bromomethane	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Carbon tetrachloride	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Chlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Chloroethane	ND		0.0050	0.0020	mg/Kg			02/28/15 18:26	1
Chloroform	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Chloromethane	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
cis-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
cis-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Dibromochloromethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Dibromomethane	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Dichlorodifluoromethane	ND		0.0050	0.0020	mg/Kg			02/28/15 18:26	1
Ethylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Hexachlorobutadiene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Isopropylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
m,p-Xylene	ND		0.0040	0.0020	mg/Kg			02/28/15 18:26	1
Methylene Chloride	ND		0.020	0.0050	mg/Kg			02/28/15 18:26	1
Naphthalene	ND		0.0050	0.0020	mg/Kg			02/28/15 18:26	1
n-Butylbenzene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
N-Propylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
o-Xylene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
p-Isopropyltoluene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
sec-Butylbenzene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Styrene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
tert-Butylbenzene	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Tetrachloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Toluene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
trans-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
trans-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Trichloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 18:26	1
Trichlorofluoromethane	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1
Vinyl chloride	ND		0.0050	0.00099	mg/Kg			02/28/15 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*79 - 123*		*02/28/15 18:26*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*		*02/28/15 18:26*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 120*		*02/28/15 18:26*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
1,2-Dichlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
1,3-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
1,4-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB7-5
Date Collected: 02/24/15 08:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-7
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2,4,6-Trichlorophenol	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2,4-Dichlorophenol	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2,4-Dimethylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2,4-Dinitrophenol	ND	*	0.64	0.32	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2,4-Dinitrotoluene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2,6-Dinitrotoluene	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2-Chloronaphthalene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2-Chlorophenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2-Methylnaphthalene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2-Methylphenol	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2-Nitroaniline	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
2-Nitrophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
3,3'-Dichlorobenzidine	ND		0.81	0.15	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
3-Methylphenol + 4-Methylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
3-Nitroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
4,6-Dinitro-2-methylphenol	ND	*	0.41	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
4-Bromophenyl phenyl ether	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
4-Chloro-3-methylphenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
4-Chloroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
4-Chlorophenyl phenyl ether	ND		0.32	0.083	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
4-Nitroaniline	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
4-Nitrophenol	ND	*	0.81	0.14	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Acenaphthene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Acenaphthylene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Aniline	ND		0.41	0.083	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Anthracene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzidine	ND		1.3	0.64	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzo[a]anthracene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzo[a]pyrene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzo[b]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzo[g,h,i]perylene	ND		0.32	0.11	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzo[k]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzoic acid	ND		0.81	0.33	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Benzyl alcohol	ND		0.32	0.15	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
bis (2-chloroisopropyl) ether	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Bis(2-chloroethoxy)methane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Bis(2-chloroethyl)ether	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Bis(2-ethylhexyl) phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Butyl benzyl phthalate	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Chrysene	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Dibenz(a,h)anthracene	ND		0.41	0.098	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Dibenzofuran	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Diethyl phthalate	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Dimethyl phthalate	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Di-n-butyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Di-n-octyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Fluorene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1

Client Sample ID: SB7-5
Date Collected: 02/24/15 08:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-7
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Hexachlorobutadiene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Hexachlorocyclopentadiene	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Hexachloroethane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Indeno[1,2,3-cd]pyrene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Isophorone	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Naphthalene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Nitrobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
N-Nitrosodimethylamine	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
N-Nitrosodi-n-propylamine	ND		0.24	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
N-Nitrosodiphenylamine	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Pentachlorophenol	ND	*	0.81	0.33	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Phenanthrene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Phenol	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:16	1
Pyrene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*35 - 120*	*02/28/15 12:20*	*03/09/15 01:16*	*1*
2-Fluorophenol (Surr)	*76*		*25 - 120*	*02/28/15 12:20*	*03/09/15 01:16*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*35 - 125*	*02/28/15 12:20*	*03/09/15 01:16*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 120*	*02/28/15 12:20*	*03/09/15 01:16*	*1*
Terphenyl-d14 (Surr)	*82*		*40 - 135*	*02/28/15 12:20*	*03/09/15 01:16*	*1*
Phenol-d6 (Surr)	*77*		*35 - 120*	*02/28/15 12:20*	*03/09/15 01:16*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*65 - 140*		*02/27/15 00:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 13:36	1
ORO (C23-C40)	**7.0**		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*40 - 140*	*02/27/15 07:40*	*02/27/15 13:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
4,4'-DDE	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
4,4'-DDT	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Aldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
alpha-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
beta-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Chlordane (technical)	ND		0.049	0.0098	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
delta-BHC	ND		0.0098	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Dieldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Endosulfan I	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1

Client Sample ID: SB7-5
Date Collected: 02/24/15 08:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-7
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Endosulfan sulfate	ND		0.0098	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Endrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Endrin aldehyde	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Endrin ketone	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
gamma-BHC (Lindane)	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Heptachlor	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Heptachlor epoxide	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Methoxychlor	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:06	1
Toxaphene	ND		0.20	0.049	mg/Kg		03/03/15 10:43	03/03/15 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 115*	*03/03/15 10:43*	*03/03/15 19:06*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*03/03/15 10:43*	*03/03/15 19:06*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:30	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:30	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:30	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:30	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:30	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:30	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*03/01/15 09:28*	*03/03/15 20:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	4.9	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Arsenic	**4.7**		2.9	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Barium	**40**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Beryllium	**0.34**	**J**	0.49	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Cadmium	ND		0.49	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Chromium	**22**		0.98	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Cobalt	**6.2**		0.98	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Copper	**9.7**		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Lead	**3.7**		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Molybdenum	ND		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Nickel	**18**		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Selenium	ND		2.9	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Silver	ND		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Thallium	ND		9.8	4.9	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Vanadium	**24**		0.98	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:04	5
Zinc	**22**		4.9	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:04	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.071**		0.020	0.012	mg/Kg		02/27/15 17:50	02/28/15 03:07	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB5-1
Date Collected: 02/24/15 09:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-11
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
1,2-Dichlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
1,3-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
1,4-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2,4,5-Trichlorophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2,4,6-Trichlorophenol	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2,4-Dichlorophenol	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2,4-Dimethylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2,4-Dinitrophenol	ND	*	0.64	0.32	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2,4-Dinitrotoluene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2,6-Dinitrotoluene	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2-Chloronaphthalene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2-Chlorophenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2-Methylnaphthalene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2-Methylphenol	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2-Nitroaniline	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
2-Nitrophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
3,3'-Dichlorobenzidine	ND		0.81	0.15	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
3-Methylphenol + 4-Methylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
3-Nitroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
4,6-Dinitro-2-methylphenol	ND	*	0.41	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
4-Bromophenyl phenyl ether	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
4-Chloro-3-methylphenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
4-Chloroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
4-Chlorophenyl phenyl ether	ND		0.32	0.083	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
4-Nitroaniline	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
4-Nitrophenol	ND	*	0.81	0.14	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Acenaphthene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Acenaphthylene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Aniline	ND		0.41	0.083	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Anthracene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzidine	ND		1.3	0.64	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzo[a]anthracene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzo[a]pyrene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzo[b]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzo[g,h,i]perylene	ND		0.32	0.11	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzo[k]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzoic acid	ND		0.81	0.33	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Benzyl alcohol	ND		0.32	0.15	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
bis (2-chloroisopropyl) ether	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Bis(2-chloroethoxy)methane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Bis(2-chloroethyl)ether	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Bis(2-ethylhexyl) phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Butyl benzyl phthalate	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Chrysene	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Dibenz(a,h)anthracene	ND		0.41	0.097	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Dibenzofuran	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Diethyl phthalate	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/09/15 01:37	1

Client Sample ID: SB5-1
Date Collected: 02/24/15 09:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-11
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Di-n-butyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Di-n-octyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Fluorene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Hexachlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Hexachlorobutadiene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Hexachlorocyclopentadiene	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Hexachloroethane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Indeno[1,2,3-cd]pyrene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Isophorone	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Naphthalene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Nitrobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
N-Nitrosodimethylamine	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
N-Nitrosodi-n-propylamine	ND		0.24	0.068	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
N-Nitrosodiphenylamine	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Pentachlorophenol	ND	*	0.81	0.33	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Phenanthrene	ND		0.32	0.065	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Phenol	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 01:37	1
Pyrene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/09/15 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*35 - 120*	*02/28/15 12:20*	*03/09/15 01:37*	*1*
2-Fluorophenol (Surr)	*83*		*25 - 120*	*02/28/15 12:20*	*03/09/15 01:37*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*35 - 125*	*02/28/15 12:20*	*03/09/15 01:37*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 120*	*02/28/15 12:20*	*03/09/15 01:37*	*1*
Terphenyl-d14 (Surr)	*83*		*40 - 135*	*02/28/15 12:20*	*03/09/15 01:37*	*1*
Phenol-d6 (Surr)	*85*		*35 - 120*	*02/28/15 12:20*	*03/09/15 01:37*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Chlordane (technical)	ND		0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:20	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:20	1

Client Sample ID: SB5-1

Date Collected: 02/24/15 09:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-11

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*35 - 115*	*03/03/15 10:43*	*03/03/15 19:20*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*03/03/15 10:43*	*03/03/15 19:20*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:44	1
Aroclor 1221	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:44	1
Aroclor 1232	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:44	1
Aroclor 1242	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:44	1
Aroclor 1248	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:44	1
Aroclor 1254	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:44	1
Aroclor 1260	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*03/01/15 09:28*	*03/03/15 20:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Arsenic	**5.1**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Barium	**49**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Beryllium	**0.34**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Chromium	**25**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Cobalt	**6.6**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Copper	**15**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Lead	**46**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Nickel	**17**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Silver	ND		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Thallium	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Vanadium	**23**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:06	5
Zinc	**31**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:06	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 04:57	1

Client Sample ID: SB5-5

Date Collected: 02/24/15 09:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-12

Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
1,1,1-Trichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB5-5
Date Collected: 02/24/15 09:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-12
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,1-Dichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,1-Dichloroethene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
1,1-Dichloropropene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
1,2,3-Trichloropropane	ND		0.010	0.0010	mg/Kg			02/28/15 18:54	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
1,2,4-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/Kg			02/28/15 18:54	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,2-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,2-Dichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,3,5-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,3-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,3-Dichloropropane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
1,4-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
2,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
2-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
4-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Benzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Bromobenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Bromochloromethane	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Bromodichloromethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Bromoform	ND		0.0050	0.0020	mg/Kg			02/28/15 18:54	1
Bromomethane	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Carbon tetrachloride	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Chlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Chloroethane	ND		0.0050	0.0020	mg/Kg			02/28/15 18:54	1
Chloroform	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Chloromethane	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
cis-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
cis-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Dibromochloromethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Dibromomethane	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Dichlorodifluoromethane	ND		0.0050	0.0020	mg/Kg			02/28/15 18:54	1
Ethylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Hexachlorobutadiene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Isopropylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
m,p-Xylene	ND		0.0040	0.0020	mg/Kg			02/28/15 18:54	1
Methylene Chloride	ND		0.020	0.0050	mg/Kg			02/28/15 18:54	1
Naphthalene	ND		0.0050	0.0020	mg/Kg			02/28/15 18:54	1
n-Butylbenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
N-Propylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
o-Xylene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
p-Isopropyltoluene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
sec-Butylbenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Styrene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
tert-Butylbenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB5-5
Date Collected: 02/24/15 09:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-12
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Toluene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
trans-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
trans-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Trichloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 18:54	1
Trichlorofluoromethane	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1
Vinyl chloride	ND		0.0050	0.0010	mg/Kg			02/28/15 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*		*02/28/15 18:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*02/28/15 18:54*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*02/28/15 18:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
1,2-Dichlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2,4,6-Trichlorophenol	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2,4-Dichlorophenol	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2,4-Dinitrophenol	ND	*	0.65	0.33	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2,4-Dinitrotoluene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2,6-Dinitrotoluene	ND		0.33	0.094	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2-Chloronaphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2-Chlorophenol	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2-Methylnaphthalene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2-Methylphenol	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2-Nitroaniline	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
3,3'-Dichlorobenzidine	ND		0.82	0.15	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
4,6-Dinitro-2-methylphenol	ND	*	0.41	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
4-Bromophenyl phenyl ether	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
4-Chloro-3-methylphenol	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
4-Chlorophenyl phenyl ether	ND		0.33	0.084	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
4-Nitroaniline	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
4-Nitrophenol	ND	*	0.82	0.14	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Acenaphthene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Acenaphthylene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Aniline	ND		0.41	0.084	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Anthracene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Benzidine	ND		1.3	0.65	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Benzo[a]anthracene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1

Client Sample ID: SB5-5
Date Collected: 02/24/15 09:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-12
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Benzo[b]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Benzo[k]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Benzoic acid	ND		0.82	0.34	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Bis(2-chloroethyl)ether	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Butyl benzyl phthalate	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Chrysene	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Dibenz(a,h)anthracene	ND		0.41	0.099	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Dibenzofuran	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Diethyl phthalate	ND		0.33	0.094	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Dimethyl phthalate	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Di-n-butyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Di-n-octyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Fluorene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Hexachlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Hexachlorocyclopentadiene	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Isophorone	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Naphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Nitrobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
N-Nitrosodimethylamine	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
N-Nitrosodi-n-propylamine	ND		0.25	0.069	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
N-Nitrosodiphenylamine	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Pentachlorophenol	ND	*	0.82	0.34	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Phenanthrene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Phenol	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 01:57	1
Pyrene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*35 - 120*	*02/28/15 12:20*	*03/09/15 01:57*	*1*
2-Fluorophenol (Surr)	*83*		*25 - 120*	*02/28/15 12:20*	*03/09/15 01:57*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*35 - 125*	*02/28/15 12:20*	*03/09/15 01:57*	*1*
Nitrobenzene-d5 (Surr)	*77*		*30 - 120*	*02/28/15 12:20*	*03/09/15 01:57*	*1*
Terphenyl-d14 (Surr)	*87*		*40 - 135*	*02/28/15 12:20*	*03/09/15 01:57*	*1*
Phenol-d6 (Surr)	*86*		*35 - 120*	*02/28/15 12:20*	*03/09/15 01:57*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 00:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*65 - 140*		*02/27/15 00:57*	*1*

Client Sample ID: SB5-5

Date Collected: 02/24/15 09:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-12

Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 13:56	1
ORO (C23-C40)	**4.1**	**J**	5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*40 - 140*	*02/27/15 07:40*	*02/27/15 13:56*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
4,4'-DDE	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
4,4'-DDT	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Aldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
alpha-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
beta-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Chlordane (technical)	ND		0.049	0.0099	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
delta-BHC	ND		0.0099	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Dieldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Endosulfan I	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Endosulfan II	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Endosulfan sulfate	ND		0.0099	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Endrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Endrin aldehyde	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Endrin ketone	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
gamma-BHC (Lindane)	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Heptachlor	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Heptachlor epoxide	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Methoxychlor	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:34	1
Toxaphene	ND		0.20	0.049	mg/Kg		03/03/15 10:43	03/03/15 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 115*	*03/03/15 10:43*	*03/03/15 19:34*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*03/03/15 10:43*	*03/03/15 19:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:58	1
Aroclor 1221	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:58	1
Aroclor 1232	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:58	1
Aroclor 1242	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:58	1
Aroclor 1248	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:58	1
Aroclor 1254	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:58	1
Aroclor 1260	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*03/01/15 09:28*	*03/03/15 20:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Arsenic	**4.8**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Barium	**35**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:08	5

Client Sample ID: SB5-5

Lab Sample ID: 440-102760-12

Date Collected: 02/24/15 09:50

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.49	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Cadmium	ND		0.49	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Chromium	**20**		0.99	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Cobalt	**5.1**		0.99	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Copper	**8.6**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Lead	**2.9**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Nickel	**19**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Silver	ND		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Thallium	ND		9.9	4.9	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Vanadium	**20**		0.99	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:08	5
Zinc	**23**		4.9	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:08	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		02/27/15 17:50	02/28/15 03:09	1

Client Sample ID: SB6-1

Lab Sample ID: 440-102760-16

Date Collected: 02/24/15 10:30

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
1,2-Dichlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2,4,6-Trichlorophenol	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2,4-Dichlorophenol	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2,4-Dinitrophenol	ND	*	0.65	0.33	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2,4-Dinitrotoluene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2,6-Dinitrotoluene	ND		0.33	0.094	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2-Chloronaphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2-Chlorophenol	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2-Methylnaphthalene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2-Methylphenol	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2-Nitroaniline	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
3,3'-Dichlorobenzidine	ND		0.82	0.15	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
4-Bromophenyl phenyl ether	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
4-Chloro-3-methylphenol	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB6-1
Date Collected: 02/24/15 10:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-16
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		0.33	0.084	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
4-Nitroaniline	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
4-Nitrophenol	ND	*	0.82	0.14	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Acenaphthene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Acenaphthylene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Aniline	ND		0.42	0.084	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Anthracene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzidine	ND		1.3	0.65	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzo[a]anthracene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzo[a]pyrene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzo[b]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzo[k]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzoic acid	ND		0.82	0.34	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Bis(2-chloroethyl)ether	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Butyl benzyl phthalate	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Chrysene	ND		0.33	0.074	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Dibenz(a,h)anthracene	ND		0.42	0.099	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Dibenzofuran	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Diethyl phthalate	ND		0.33	0.094	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Dimethyl phthalate	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Di-n-butyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Di-n-octyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Fluorene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Hexachlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Hexachlorocyclopentadiene	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Isophorone	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Naphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Nitrobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
N-Nitrosodimethylamine	ND		0.33	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
N-Nitrosodi-n-propylamine	ND		0.25	0.069	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
N-Nitrosodiphenylamine	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Pentachlorophenol	ND	*	0.82	0.34	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Phenanthrene	ND		0.33	0.066	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Phenol	ND		0.33	0.089	mg/Kg		02/28/15 12:20	03/09/15 02:18	1
Pyrene	ND		0.33	0.079	mg/Kg		02/28/15 12:20	03/09/15 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*35 - 120*	*02/28/15 12:20*	*03/09/15 02:18*	*1*
2-Fluorophenol (Surr)	*78*		*25 - 120*	*02/28/15 12:20*	*03/09/15 02:18*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*35 - 125*	*02/28/15 12:20*	*03/09/15 02:18*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 120*	*02/28/15 12:20*	*03/09/15 02:18*	*1*

Client Sample ID: SB6-1
Date Collected: 02/24/15 10:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-16
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*80*		*40 - 135*	*02/28/15 12:20*	*03/09/15 02:18*	*1*
Phenol-d6 (Surr)	*77*		*35 - 120*	*02/28/15 12:20*	*03/09/15 02:18*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
4,4'-DDE	**0.0038**	**J**	0.0050	0.0015	mg/Kg		03/03/15 10:43	03/04/15 15:55	1
4,4'-DDT	**0.0026**	**J**	0.0050	0.0015	mg/Kg		03/03/15 10:43	03/04/15 15:55	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Chlordane (technical)	ND		0.050	0.0099	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
delta-BHC	ND		0.0099	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Endosulfan sulfate	ND		0.0099	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 19:48	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*68*		*35 - 115*	*03/03/15 10:43*	*03/03/15 19:48*	*1*
Tetrachloro-m-xylene	*69*		*35 - 115*	*03/03/15 10:43*	*03/04/15 15:55*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*03/03/15 10:43*	*03/03/15 19:48*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*45 - 120*	*03/03/15 10:43*	*03/04/15 15:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:14	1
Aroclor 1221	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:14	1
Aroclor 1232	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:14	1
Aroclor 1242	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:14	1
Aroclor 1248	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:14	1
Aroclor 1254	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:14	1
Aroclor 1260	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*03/01/15 09:28*	*03/03/15 21:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Arsenic	**5.0**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Barium	**97**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:17	5

Client Sample ID: SB6-1

Lab Sample ID: 440-102760-16

Date Collected: 02/24/15 10:30

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.34	J	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Cadmium	0.53		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Chromium	27		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Cobalt	9.0		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Copper	16		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Lead	11		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Nickel	28		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Silver	ND		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Vanadium	32		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:17	5
Zinc	46		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:17	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 04:55	1

Client Sample ID: SB6-5

Lab Sample ID: 440-102760-17

Date Collected: 02/24/15 10:40

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
1,1,1-Trichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,1,2-Trichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,1-Dichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,1-Dichloroethene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
1,1-Dichloropropene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,2,3-Trichlorobenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
1,2,3-Trichloropropane	ND		0.0098	0.00098	mg/Kg			02/28/15 19:22	1
1,2,4-Trichlorobenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,2-Dibromo-3-Chloropropane	ND		0.0049	0.0020	mg/Kg			02/28/15 19:22	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,2-Dichlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,2-Dichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,2-Dichloropropane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,3-Dichlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,3-Dichloropropane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
1,4-Dichlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
2,2-Dichloropropane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
2-Chlorotoluene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
4-Chlorotoluene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Benzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Bromobenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Bromochloromethane	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB6-5
Date Collected: 02/24/15 10:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-17
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Bromoform	ND		0.0049	0.0020	mg/Kg			02/28/15 19:22	1
Bromomethane	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Carbon tetrachloride	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Chlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Chloroethane	ND		0.0049	0.0020	mg/Kg			02/28/15 19:22	1
Chloroform	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Chloromethane	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
cis-1,2-Dichloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
cis-1,3-Dichloropropene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Dibromochloromethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Dibromomethane	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Dichlorodifluoromethane	ND		0.0049	0.0020	mg/Kg			02/28/15 19:22	1
Ethylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Hexachlorobutadiene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Isopropylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
m,p-Xylene	ND		0.0039	0.0020	mg/Kg			02/28/15 19:22	1
Methylene Chloride	ND		0.020	0.0049	mg/Kg			02/28/15 19:22	1
Naphthalene	ND		0.0049	0.0020	mg/Kg			02/28/15 19:22	1
n-Butylbenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
N-Propylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
o-Xylene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
p-Isopropyltoluene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
sec-Butylbenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Styrene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
tert-Butylbenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Tetrachloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Toluene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
trans-1,2-Dichloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
trans-1,3-Dichloropropene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Trichloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 19:22	1
Trichlorofluoromethane	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1
Vinyl chloride	ND		0.0049	0.00098	mg/Kg			02/28/15 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*		*02/28/15 19:22*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*		*02/28/15 19:22*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 120*		*02/28/15 19:22*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
1,2-Dichlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
1,3-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
1,4-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2,4,5-Trichlorophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2,4,6-Trichlorophenol	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2,4-Dichlorophenol	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB6-5
Date Collected: 02/24/15 10:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-17
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2,4-Dinitrophenol	ND	*	0.65	0.32	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2,4-Dinitrotoluene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2,6-Dinitrotoluene	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2-Chloronaphthalene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2-Chlorophenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2-Methylnaphthalene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2-Methylphenol	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2-Nitroaniline	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
2-Nitrophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
3,3'-Dichlorobenzidine	ND		0.81	0.15	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
3-Methylphenol + 4-Methylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
3-Nitroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
4,6-Dinitro-2-methylphenol	ND	*	0.41	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
4-Bromophenyl phenyl ether	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
4-Chloro-3-methylphenol	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
4-Chloroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
4-Chlorophenyl phenyl ether	ND		0.32	0.083	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
4-Nitroaniline	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
4-Nitrophenol	ND	*	0.81	0.14	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Acenaphthene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Acenaphthylene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Aniline	ND		0.41	0.083	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Anthracene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzidine	ND		1.3	0.65	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzo[a]anthracene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzo[a]pyrene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzo[b]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzo[g,h,i]perylene	ND		0.32	0.11	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzo[k]fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzoic acid	ND		0.81	0.33	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Benzyl alcohol	ND		0.32	0.15	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
bis (2-chloroisopropyl) ether	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Bis(2-chloroethoxy)methane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Bis(2-chloroethyl)ether	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Bis(2-ethylhexyl) phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Butyl benzyl phthalate	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Chrysene	ND		0.32	0.073	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Dibenz(a,h)anthracene	ND		0.41	0.098	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Dibenzofuran	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Diethyl phthalate	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Dimethyl phthalate	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Di-n-butyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Di-n-octyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Fluoranthene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Fluorene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Hexachlorobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Hexachlorobutadiene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Hexachlorocyclopentadiene	ND		0.81	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1

Client Sample ID: SB6-5
Date Collected: 02/24/15 10:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-17
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Indeno[1,2,3-cd]pyrene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Isophorone	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Naphthalene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Nitrobenzene	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
N-Nitrosodimethylamine	ND		0.32	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
N-Nitrosodi-n-propylamine	ND		0.24	0.068	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
N-Nitrosodiphenylamine	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Pentachlorophenol	ND	*	0.81	0.33	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Phenanthrene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Phenol	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/07/15 05:57	1
Pyrene	ND		0.32	0.078	mg/Kg		02/28/15 12:20	03/07/15 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*35 - 120*	*02/28/15 12:20*	*03/07/15 05:57*	*1*
2-Fluorophenol (Surr)	*58*		*25 - 120*	*02/28/15 12:20*	*03/07/15 05:57*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*35 - 125*	*02/28/15 12:20*	*03/07/15 05:57*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 120*	*02/28/15 12:20*	*03/07/15 05:57*	*1*
Terphenyl-d14 (Surr)	*60*		*40 - 135*	*02/28/15 12:20*	*03/07/15 05:57*	*1*
Phenol-d6 (Surr)	*61*		*35 - 120*	*02/28/15 12:20*	*03/07/15 05:57*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*65 - 140*		*02/27/15 01:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	**4.2**	**J**	5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 14:16	1
ORO (C23-C40)	**13**		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*02/27/15 07:40*	*02/27/15 14:16*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Chlordane (technical)	ND		0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1

Client Sample ID: SB6-5
Date Collected: 02/24/15 10:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-17
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:02	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 115*	*03/03/15 10:43*	*03/03/15 20:02*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*03/03/15 10:43*	*03/03/15 20:02*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:28	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:28	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:28	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:28	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:28	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:28	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*03/01/15 09:28*	*03/03/15 21:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Arsenic	**5.9**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Barium	**43**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Beryllium	**0.33**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Chromium	**24**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Cobalt	**5.9**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Copper	**18**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Lead	**4.7**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Nickel	**16**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Silver	ND		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Thallium	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Vanadium	**27**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:19	5
Zinc	**39**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:19	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.020	0.012	mg/Kg		02/27/15 17:50	02/28/15 03:02	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB4-1
Date Collected: 02/24/15 12:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-21
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2,4-Dinitrophenol	ND	*	0.66	0.33	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2,4-Dinitrotoluene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2,6-Dinitrotoluene	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
3,3'-Dichlorobenzidine	ND		0.83	0.15	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
4-Chlorophenyl phenyl ether	ND		0.33	0.085	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
4-Nitroaniline	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
4-Nitrophenol	ND	*	0.83	0.14	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Acenaphthene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Aniline	ND		0.42	0.085	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Anthracene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzidine	ND		1.3	0.66	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzoic acid	ND		0.83	0.34	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Butyl benzyl phthalate	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Chrysene	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Dibenz(a,h)anthracene	ND		0.42	0.10	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Diethyl phthalate	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/07/15 06:19	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB4-1
Date Collected: 02/24/15 12:30
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-21
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Di-n-butyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Di-n-octyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Fluorene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Hexachlorocyclopentadiene	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Isophorone	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Naphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
N-Nitrosodimethylamine	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
N-Nitrosodiphenylamine	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Pentachlorophenol	ND	*	0.83	0.34	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Phenanthrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Phenol	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/07/15 06:19	1
Pyrene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/07/15 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*35 - 120*	*02/28/15 12:20*	*03/07/15 06:19*	*1*
2-Fluorophenol (Surr)	*71*		*25 - 120*	*02/28/15 12:20*	*03/07/15 06:19*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*35 - 125*	*02/28/15 12:20*	*03/07/15 06:19*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 120*	*02/28/15 12:20*	*03/07/15 06:19*	*1*
Terphenyl-d14 (Surr)	*76*		*40 - 135*	*02/28/15 12:20*	*03/07/15 06:19*	*1*
Phenol-d6 (Surr)	*74*		*35 - 120*	*02/28/15 12:20*	*03/07/15 06:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
4,4'-DDE	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
4,4'-DDT	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Aldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
alpha-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
beta-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Chlordane (technical)	ND		0.049	0.0098	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
delta-BHC	ND		0.0098	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Dieldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Endosulfan I	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Endosulfan II	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Endosulfan sulfate	ND		0.0098	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Endrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Endrin aldehyde	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Endrin ketone	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
gamma-BHC (Lindane)	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Heptachlor	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Heptachlor epoxide	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:15	1
Methoxychlor	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:15	1

Client Sample ID: SB4-1

Lab Sample ID: 440-102760-21

Date Collected: 02/24/15 12:30

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		0.20	0.049	mg/Kg		03/03/15 10:43	03/03/15 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*35 - 115*	*03/03/15 10:43*	*03/03/15 20:15*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*03/03/15 10:43*	*03/03/15 20:15*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:42	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:42	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:42	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:42	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:42	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:42	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*03/01/15 09:28*	*03/03/15 21:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Arsenic	**5.4**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Barium	**85**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Beryllium	**0.44**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Cadmium	**0.82**		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Chromium	**35**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Cobalt	**18**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Copper	**30**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Lead	**4.4**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Molybdenum	**3.2**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Nickel	**58**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Silver	**0.84**	**J**	1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Thallium	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Vanadium	**36**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:21	5
Zinc	**51**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:21	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 04:52	1

Client Sample ID: SB4-5

Lab Sample ID: 440-102760-22

Date Collected: 02/24/15 12:40

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
1,1,1-Trichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB4-5
Date Collected: 02/24/15 12:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-22
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,1-Dichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,1-Dichloroethene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
1,1-Dichloropropene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,2,3-Trichlorobenzene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
1,2,3-Trichloropropane	ND		0.0099	0.00099	mg/Kg			02/28/15 19:50	1
1,2,4-Trichlorobenzene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,2-Dibromo-3-Chloropropane	ND		0.0049	0.0020	mg/Kg			02/28/15 19:50	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,2-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,2-Dichloroethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,3-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,3-Dichloropropane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
1,4-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
2,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
2-Chlorotoluene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
4-Chlorotoluene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Benzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Bromobenzene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Bromochloromethane	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Bromodichloromethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Bromoform	ND		0.0049	0.0020	mg/Kg			02/28/15 19:50	1
Bromomethane	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Carbon tetrachloride	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Chlorobenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Chloroethane	ND		0.0049	0.0020	mg/Kg			02/28/15 19:50	1
Chloroform	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Chloromethane	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
cis-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
cis-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Dibromochloromethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Dibromomethane	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Dichlorodifluoromethane	ND		0.0049	0.0020	mg/Kg			02/28/15 19:50	1
Ethylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Hexachlorobutadiene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Isopropylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
m,p-Xylene	ND		0.0039	0.0020	mg/Kg			02/28/15 19:50	1
Methylene Chloride	ND		0.020	0.0049	mg/Kg			02/28/15 19:50	1
Naphthalene	ND		0.0049	0.0020	mg/Kg			02/28/15 19:50	1
n-Butylbenzene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
N-Propylbenzene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
o-Xylene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
p-Isopropyltoluene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
sec-Butylbenzene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Styrene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
tert-Butylbenzene	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB4-5
Date Collected: 02/24/15 12:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-22
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Toluene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
trans-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
trans-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Trichloroethene	ND		0.0020	0.00099	mg/Kg			02/28/15 19:50	1
Trichlorofluoromethane	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1
Vinyl chloride	ND		0.0049	0.00099	mg/Kg			02/28/15 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*79 - 123*		*02/28/15 19:50*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*02/28/15 19:50*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*02/28/15 19:50*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2,4-Dinitrophenol	ND	*	0.66	0.33	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2,4-Dinitrotoluene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2,6-Dinitrotoluene	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
3,3'-Dichlorobenzidine	ND		0.83	0.15	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
4-Chlorophenyl phenyl ether	ND		0.33	0.085	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
4-Nitroaniline	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
4-Nitrophenol	ND	*	0.83	0.14	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Acenaphthene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Aniline	ND		0.42	0.085	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Anthracene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Benzidine	ND		1.3	0.66	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1

Client Sample ID: SB4-5
Date Collected: 02/24/15 12:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-22
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Benzoic acid	ND		0.83	0.34	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Butyl benzyl phthalate	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Chrysene	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Dibenz(a,h)anthracene	ND		0.42	0.10	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Diethyl phthalate	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Di-n-butyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Di-n-octyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Fluorene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Hexachlorocyclopentadiene	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Isophorone	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Naphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
N-Nitrosodimethylamine	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
N-Nitrosodiphenylamine	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Pentachlorophenol	ND	*	0.83	0.34	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Phenanthrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Phenol	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/09/15 02:39	1
Pyrene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/09/15 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*35 - 120*	*02/28/15 12:20*	*03/09/15 02:39*	*1*
2-Fluorophenol (Surr)	*75*		*25 - 120*	*02/28/15 12:20*	*03/09/15 02:39*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*35 - 125*	*02/28/15 12:20*	*03/09/15 02:39*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 120*	*02/28/15 12:20*	*03/09/15 02:39*	*1*
Terphenyl-d14 (Surr)	*74*		*40 - 135*	*02/28/15 12:20*	*03/09/15 02:39*	*1*
Phenol-d6 (Surr)	*63*		*35 - 120*	*02/28/15 12:20*	*03/09/15 02:39*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*65 - 140*		*02/27/15 01:48*	*1*

Client Sample ID: SB4-5
Date Collected: 02/24/15 12:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-22
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		02/27/15 07:40	02/27/15 12:31	1
ORO (C23-C40)	**4.1**	**J**	4.9	2.5	mg/Kg		02/27/15 07:40	02/27/15 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*40 - 140*	*02/27/15 07:40*	*02/27/15 12:31*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Chlordane (technical)	ND		0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:29	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 115*	*03/03/15 10:43*	*03/03/15 20:29*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*03/03/15 10:43*	*03/03/15 20:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:55	1
Aroclor 1221	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:55	1
Aroclor 1232	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:55	1
Aroclor 1242	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:55	1
Aroclor 1248	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:55	1
Aroclor 1254	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:55	1
Aroclor 1260	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*03/01/15 09:28*	*03/03/15 21:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Arsenic	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Barium	**380**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:23	5

Client Sample ID: SB4-5

Date Collected: 02/24/15 12:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-22
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Chromium	**64**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Cobalt	**27**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Copper	**43**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Lead	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Nickel	**71**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Silver	**1.1**	**J**	1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Vanadium	**30**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:23	5
Zinc	**73**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:23	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.020	0.012	mg/Kg		02/27/15 17:50	02/28/15 03:12	1

Client Sample ID: SB3-1

Date Collected: 02/24/15 13:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-26
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
1,2-Dichlorobenzene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
1,3-Dichlorobenzene	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
1,4-Dichlorobenzene	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2,4,5-Trichlorophenol	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2,4,6-Trichlorophenol	ND		0.68	0.15	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2,4-Dichlorophenol	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2,4-Dimethylphenol	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2,4-Dinitrophenol	ND	*	1.4	0.68	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2,4-Dinitrotoluene	ND		0.68	0.16	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2,6-Dinitrotoluene	ND		0.68	0.19	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2-Chloronaphthalene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2-Chlorophenol	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2-Methylnaphthalene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2-Methylphenol	ND		0.68	0.16	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2-Nitroaniline	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
2-Nitrophenol	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
3,3'-Dichlorobenzidine	ND		1.7	0.31	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
3-Methylphenol + 4-Methylphenol	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
3-Nitroaniline	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
4,6-Dinitro-2-methylphenol	ND	*	0.86	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
4-Bromophenyl phenyl ether	ND		0.68	0.15	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
4-Chloro-3-methylphenol	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
4-Chloroaniline	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB3-1
Date Collected: 02/24/15 13:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-26
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		0.68	0.17	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
4-Nitroaniline	ND		1.7	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
4-Nitrophenol	ND	*	1.7	0.29	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Acenaphthene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Acenaphthylene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Aniline	ND		0.86	0.17	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Anthracene	ND		0.68	0.16	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzidine	ND		2.7	1.4	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzo[a]anthracene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzo[a]pyrene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzo[b]fluoranthene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzo[g,h,i]perylene	ND		0.68	0.23	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzo[k]fluoranthene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzoic acid	ND		1.7	0.70	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Benzyl alcohol	ND		0.68	0.31	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
bis (2-chloroisopropyl) ether	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Bis(2-chloroethoxy)methane	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Bis(2-chloroethyl)ether	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Bis(2-ethylhexyl) phthalate	ND		0.68	0.18	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Butyl benzyl phthalate	ND		0.68	0.16	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Chrysene	ND		0.68	0.15	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Dibenz(a,h)anthracene	ND		0.86	0.20	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Dibenzofuran	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Diethyl phthalate	ND		0.68	0.19	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Dimethyl phthalate	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Di-n-butyl phthalate	ND		0.68	0.18	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Di-n-octyl phthalate	ND		0.68	0.18	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Fluoranthene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Fluorene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Hexachlorobenzene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Hexachlorobutadiene	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Hexachlorocyclopentadiene	ND		1.7	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Hexachloroethane	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Indeno[1,2,3-cd]pyrene	ND		0.68	0.27	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Isophorone	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Naphthalene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Nitrobenzene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
N-Nitrosodimethylamine	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
N-Nitrosodi-n-propylamine	ND		0.51	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
N-Nitrosodiphenylamine	ND		0.68	0.16	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Pentachlorophenol	ND	*	1.7	0.70	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Phenanthrene	ND		0.68	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Phenol	ND		0.68	0.18	mg/Kg		02/28/15 12:20	03/09/15 03:00	1
Pyrene	ND		0.68	0.16	mg/Kg		02/28/15 12:20	03/09/15 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*35 - 120*	*02/28/15 12:20*	*03/09/15 03:00*	*1*
2-Fluorophenol (Surr)	*70*		*25 - 120*	*02/28/15 12:20*	*03/09/15 03:00*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*35 - 125*	*02/28/15 12:20*	*03/09/15 03:00*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 120*	*02/28/15 12:20*	*03/09/15 03:00*	*1*

Client Sample ID: SB3-1
Date Collected: 02/24/15 13:40
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-26
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*73*		*40 - 135*	*02/28/15 12:20*	*03/09/15 03:00*	*1*
Phenol-d6 (Surr)	*71*		*35 - 120*	*02/28/15 12:20*	*03/09/15 03:00*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Chlordane (technical)	ND		0.050	0.0099	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
delta-BHC	ND		0.0099	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Endosulfan sulfate	ND		0.0099	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:43	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 20:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*67*		*35 - 115*	*03/03/15 10:43*	*03/03/15 20:43*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*45 - 120*	*03/03/15 10:43*	*03/03/15 20:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.096	0.033	mg/Kg		03/01/15 09:28	03/03/15 22:09	1
Aroclor 1221	ND		0.096	0.033	mg/Kg		03/01/15 09:28	03/03/15 22:09	1
Aroclor 1232	ND		0.096	0.033	mg/Kg		03/01/15 09:28	03/03/15 22:09	1
Aroclor 1242	ND		0.096	0.033	mg/Kg		03/01/15 09:28	03/03/15 22:09	1
Aroclor 1248	ND		0.096	0.033	mg/Kg		03/01/15 09:28	03/03/15 22:09	1
Aroclor 1254	ND		0.096	0.033	mg/Kg		03/01/15 09:28	03/03/15 22:09	1
Aroclor 1260	ND		0.096	0.033	mg/Kg		03/01/15 09:28	03/03/15 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*03/01/15 09:28*	*03/03/15 22:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Arsenic	**3.4**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Barium	**100**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Beryllium	**0.48**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Cadmium	**1.2**		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:25	5

Client Sample ID: SB3-1

Lab Sample ID: 440-102760-26

Date Collected: 02/24/15 13:40

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	50		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Cobalt	24		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Copper	36		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Lead	3.0		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Molybdenum	1.5	J	2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Nickel	84		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Silver	1.6		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Vanadium	33		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:25	5
Zinc	60		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:25	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 04:50	1

Client Sample ID: SB3-5

Lab Sample ID: 440-102760-27

Date Collected: 02/24/15 13:50

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
1,1,1-Trichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,1,2-Trichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,1-Dichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,1-Dichloroethene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
1,1-Dichloropropene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,2,3-Trichlorobenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
1,2,3-Trichloropropane	ND		0.0098	0.00098	mg/Kg			02/28/15 20:19	1
1,2,4-Trichlorobenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,2-Dibromo-3-Chloropropane	ND		0.0049	0.0020	mg/Kg			02/28/15 20:19	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,2-Dichlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,2-Dichloroethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,2-Dichloropropane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,3-Dichlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,3-Dichloropropane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
1,4-Dichlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
2,2-Dichloropropane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
2-Chlorotoluene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
4-Chlorotoluene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Benzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Bromobenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Bromochloromethane	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Bromodichloromethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Bromoform	ND		0.0049	0.0020	mg/Kg			02/28/15 20:19	1

Client Sample ID: SB3-5
Date Collected: 02/24/15 13:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-27
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Carbon tetrachloride	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Chlorobenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Chloroethane	ND		0.0049	0.0020	mg/Kg			02/28/15 20:19	1
Chloroform	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Chloromethane	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
cis-1,2-Dichloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
cis-1,3-Dichloropropene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Dibromochloromethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Dibromomethane	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Dichlorodifluoromethane	ND		0.0049	0.0020	mg/Kg			02/28/15 20:19	1
Ethylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Hexachlorobutadiene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Isopropylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
m,p-Xylene	ND		0.0039	0.0020	mg/Kg			02/28/15 20:19	1
Methylene Chloride	ND		0.020	0.0049	mg/Kg			02/28/15 20:19	1
Naphthalene	ND		0.0049	0.0020	mg/Kg			02/28/15 20:19	1
n-Butylbenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
N-Propylbenzene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
o-Xylene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
p-Isopropyltoluene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
sec-Butylbenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Styrene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
tert-Butylbenzene	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Tetrachloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Toluene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
trans-1,2-Dichloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
trans-1,3-Dichloropropene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Trichloroethene	ND		0.0020	0.00098	mg/Kg			02/28/15 20:19	1
Trichlorofluoromethane	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1
Vinyl chloride	ND		0.0049	0.00098	mg/Kg			02/28/15 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*79 - 123*		*02/28/15 20:19*	*1*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*		*02/28/15 20:19*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 120*		*02/28/15 20:19*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
1,2-Dichlorobenzene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
1,3-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
1,4-Dichlorobenzene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2,4,5-Trichlorophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2,4,6-Trichlorophenol	ND		0.32	0.074	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2,4-Dichlorophenol	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2,4-Dimethylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2,4-Dinitrophenol	ND	*	0.65	0.32	mg/Kg		02/28/15 12:20	03/09/15 03:21	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB3-5
Date Collected: 02/24/15 13:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-27
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.32	0.079	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2,6-Dinitrotoluene	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2-Chloronaphthalene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2-Chlorophenol	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2-Methylnaphthalene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2-Methylphenol	ND		0.32	0.079	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2-Nitroaniline	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
2-Nitrophenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
3,3'-Dichlorobenzidine	ND		0.82	0.15	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
3-Methylphenol + 4-Methylphenol	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
3-Nitroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
4,6-Dinitro-2-methylphenol	ND	*	0.41	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
4-Bromophenyl phenyl ether	ND		0.32	0.074	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
4-Chloro-3-methylphenol	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
4-Chloroaniline	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
4-Chlorophenyl phenyl ether	ND		0.32	0.083	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
4-Nitroaniline	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
4-Nitrophenol	ND	*	0.82	0.14	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Acenaphthene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Acenaphthylene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Aniline	ND		0.41	0.083	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Anthracene	ND		0.32	0.079	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzidine	ND		1.3	0.65	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzo[a]anthracene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzo[a]pyrene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzo[b]fluoranthene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzo[g,h,i]perylene	ND		0.32	0.11	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzo[k]fluoranthene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzoic acid	ND		0.82	0.33	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Benzyl alcohol	ND		0.32	0.15	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
bis (2-chloroisopropyl) ether	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Bis(2-chloroethoxy)methane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Bis(2-chloroethyl)ether	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Bis(2-ethylhexyl) phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Butyl benzyl phthalate	ND		0.32	0.079	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Chrysene	ND		0.32	0.074	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Dibenz(a,h)anthracene	ND		0.41	0.098	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Dibenzofuran	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Diethyl phthalate	ND		0.32	0.093	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Dimethyl phthalate	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Di-n-butyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Di-n-octyl phthalate	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Fluoranthene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Fluorene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Hexachlorobenzene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Hexachlorobutadiene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Hexachlorocyclopentadiene	ND		0.82	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Hexachloroethane	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Indeno[1,2,3-cd]pyrene	ND		0.32	0.13	mg/Kg		02/28/15 12:20	03/09/15 03:21	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB3-5
Date Collected: 02/24/15 13:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-27
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Naphthalene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Nitrobenzene	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
N-Nitrosodimethylamine	ND		0.32	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
N-Nitrosodi-n-propylamine	ND		0.25	0.069	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
N-Nitrosodiphenylamine	ND		0.32	0.079	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Pentachlorophenol	ND	*	0.82	0.33	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Phenanthrene	ND		0.32	0.066	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Phenol	ND		0.32	0.088	mg/Kg		02/28/15 12:20	03/09/15 03:21	1
Pyrene	ND		0.32	0.079	mg/Kg		02/28/15 12:20	03/09/15 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*35 - 120*	*02/28/15 12:20*	*03/09/15 03:21*	*1*
2-Fluorophenol (Surr)	*67*		*25 - 120*	*02/28/15 12:20*	*03/09/15 03:21*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*35 - 125*	*02/28/15 12:20*	*03/09/15 03:21*	*1*
Nitrobenzene-d5 (Surr)	*72*		*30 - 120*	*02/28/15 12:20*	*03/09/15 03:21*	*1*
Terphenyl-d14 (Surr)	*74*		*40 - 135*	*02/28/15 12:20*	*03/09/15 03:21*	*1*
Phenol-d6 (Surr)	*73*		*35 - 120*	*02/28/15 12:20*	*03/09/15 03:21*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*65 - 140*		*02/27/15 02:14*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 12:52	1
ORO (C23-C40)	**6.1**		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*84*		*40 - 140*	*02/27/15 07:40*	*02/27/15 12:52*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Chlordane (technical)	ND		0.050	0.0099	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
delta-BHC	ND		0.0099	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Endosulfan sulfate	ND		0.0099	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:57	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB3-5
Date Collected: 02/24/15 13:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-27
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 20:57	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*		*35 - 115*	*03/03/15 10:43*	*03/03/15 20:57*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*03/03/15 10:43*	*03/03/15 20:57*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:23	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:23	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:23	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:23	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:23	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:23	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*03/01/15 09:28*	*03/03/15 22:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Arsenic	**2.5**	**J**	3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Barium	**400**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Beryllium	**0.43**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Cadmium	**0.28**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Chromium	**60**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Cobalt	**36**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Copper	**36**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Lead	**1.5**	**J**	2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Nickel	**95**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Silver	**1.8**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Vanadium	**48**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:27	5
Zinc	**58**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:27	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.020	0.012	mg/Kg		02/27/15 17:50	02/28/15 03:14	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB3-20
Date Collected: 02/24/15 14:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-30
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
1,1,1-Trichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,1,2-Trichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,1-Dichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,1-Dichloroethene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
1,1-Dichloropropene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,2,3-Trichlorobenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
1,2,3-Trichloropropane	ND		0.0099	0.00099	mg/Kg			03/02/15 12:30	1
1,2,4-Trichlorobenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/Kg			03/02/15 12:30	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,2-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,2-Dichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,3-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,3-Dichloropropane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
1,4-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
2,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
2-Chlorotoluene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
4-Chlorotoluene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Benzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Bromobenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Bromochloromethane	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Bromodichloromethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Bromoform	ND		0.0050	0.0020	mg/Kg			03/02/15 12:30	1
Bromomethane	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Carbon tetrachloride	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Chlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Chloroethane	ND		0.0050	0.0020	mg/Kg			03/02/15 12:30	1
Chloroform	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Chloromethane	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
cis-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
cis-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Dibromochloromethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Dibromomethane	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Dichlorodifluoromethane	ND		0.0050	0.0020	mg/Kg			03/02/15 12:30	1
Ethylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Hexachlorobutadiene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Isopropylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
m,p-Xylene	ND		0.0040	0.0020	mg/Kg			03/02/15 12:30	1
Naphthalene	ND		0.0050	0.0020	mg/Kg			03/02/15 12:30	1
n-Butylbenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
N-Propylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
o-Xylene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
p-Isopropyltoluene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
sec-Butylbenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1

Client Sample ID: SB3-20
Date Collected: 02/24/15 14:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-30
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
tert-Butylbenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Tetrachloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Toluene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
trans-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
trans-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Trichloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 12:30	1
Trichlorofluoromethane	ND		0.0050	0.00099	mg/Kg			03/02/15 12:30	1
Vinyl chloride	ND	*	0.0050	0.00099	mg/Kg			03/02/15 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*79 - 123*		*03/02/15 12:30*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*03/02/15 12:30*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 120*		*03/02/15 12:30*	*1*

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	**0.013**	**J**	0.020	0.0050	mg/Kg			03/03/15 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*79 - 123*		*03/03/15 11:23*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*		*03/03/15 11:23*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 120*		*03/03/15 11:23*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
1,2-Dichlorobenzene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
1,3-Dichlorobenzene	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
1,4-Dichlorobenzene	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2,4,5-Trichlorophenol	ND		0.66	0.26	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2,4,6-Trichlorophenol	ND		0.66	0.15	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2,4-Dichlorophenol	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2,4-Dimethylphenol	ND		0.66	0.26	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2,4-Dinitrophenol	ND	*	1.3	0.66	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2,4-Dinitrotoluene	ND		0.66	0.16	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2,6-Dinitrotoluene	ND		0.66	0.19	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2-Chloronaphthalene	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2-Chlorophenol	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2-Methylnaphthalene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2-Methylphenol	ND		0.66	0.16	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2-Nitroaniline	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
2-Nitrophenol	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
3,3'-Dichlorobenzidine	ND		1.7	0.30	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
3-Methylphenol + 4-Methylphenol	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
3-Nitroaniline	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
4,6-Dinitro-2-methylphenol	ND	*	0.84	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
4-Bromophenyl phenyl ether	ND		0.66	0.15	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
4-Chloro-3-methylphenol	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1

Client Sample ID: SB3-20
Date Collected: 02/24/15 14:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-30
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
4-Chlorophenyl phenyl ether	ND		0.66	0.17	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
4-Nitroaniline	ND		1.7	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
4-Nitrophenol	ND	*	1.7	0.28	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Acenaphthene	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Acenaphthylene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Aniline	ND		0.84	0.17	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Anthracene	ND		0.66	0.16	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzidine	ND		2.7	1.3	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzo[a]anthracene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzo[a]pyrene	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzo[b]fluoranthene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzo[g,h,i]perylene	ND		0.66	0.22	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzo[k]fluoranthene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzoic acid	ND		1.7	0.68	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Benzyl alcohol	ND		0.66	0.30	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
bis (2-chloroisopropyl) ether	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Bis(2-chloroethoxy)methane	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Bis(2-chloroethyl)ether	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Bis(2-ethylhexyl) phthalate	ND		0.66	0.18	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Butyl benzyl phthalate	ND		0.66	0.16	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Chrysene	ND		0.66	0.15	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Dibenz(a,h)anthracene	ND		0.84	0.20	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Dibenzofuran	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Diethyl phthalate	ND		0.66	0.19	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Dimethyl phthalate	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Di-n-butyl phthalate	ND		0.66	0.18	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Di-n-octyl phthalate	ND		0.66	0.18	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Fluoranthene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Fluorene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Hexachlorobenzene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Hexachlorobutadiene	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Hexachlorocyclopentadiene	ND		1.7	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Hexachloroethane	ND		0.66	0.27	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Indeno[1,2,3-cd]pyrene	ND		0.66	0.26	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Isophorone	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Naphthalene	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Nitrobenzene	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
N-Nitrosodimethylamine	ND		0.66	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
N-Nitrosodiphenylamine	ND		0.66	0.16	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Pentachlorophenol	ND	*	1.7	0.68	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Phenanthrene	ND		0.66	0.13	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Phenol	ND		0.66	0.18	mg/Kg		02/28/15 12:20	03/07/15 07:42	1
Pyrene	ND		0.66	0.16	mg/Kg		02/28/15 12:20	03/07/15 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*35 - 120*	*02/28/15 12:20*	*03/07/15 07:42*	*1*
2-Fluorophenol (Surr)	*76*		*25 - 120*	*02/28/15 12:20*	*03/07/15 07:42*	*1*
2,4,6-Tribromophenol (Surr)	*96*		*35 - 125*	*02/28/15 12:20*	*03/07/15 07:42*	*1*

Client Sample ID: SB3-20
Date Collected: 02/24/15 14:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-30
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*48*		*30 - 120*	*02/28/15 12:20*	*03/07/15 07:42*	*1*
Terphenyl-d14 (Surr)	*74*		*40 - 135*	*02/28/15 12:20*	*03/07/15 07:42*	*1*
Phenol-d6 (Surr)	*78*		*35 - 120*	*02/28/15 12:20*	*03/07/15 07:42*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*65 - 140*		*02/27/15 02:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 16:56	1
ORO (C23-C40)	**6.2**		5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*80*		*40 - 140*	*02/27/15 11:46*	*02/27/15 16:56*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
4,4'-DDE	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
4,4'-DDT	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Aldrin	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
alpha-BHC	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
beta-BHC	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Chlordane (technical)	ND		0.10	0.020	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
delta-BHC	ND		0.020	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Dieldrin	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Endosulfan I	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Endosulfan II	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Endosulfan sulfate	ND		0.020	0.0040	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Endrin	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Endrin aldehyde	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Endrin ketone	ND		0.010	0.0040	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
gamma-BHC (Lindane)	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Heptachlor	ND		0.010	0.0040	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Heptachlor epoxide	ND		0.010	0.0040	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Methoxychlor	ND		0.010	0.0030	mg/Kg		03/03/15 10:43	03/03/15 21:11	1
Toxaphene	ND		0.40	0.10	mg/Kg		03/03/15 10:43	03/03/15 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*	*p*	*35 - 115*	*03/03/15 10:43*	*03/03/15 21:11*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*03/03/15 10:43*	*03/03/15 21:11*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.097	0.033	mg/Kg		03/01/15 09:28	03/04/15 10:09	1
Aroclor 1221	ND		0.097	0.033	mg/Kg		03/01/15 09:28	03/04/15 10:09	1
Aroclor 1232	ND		0.097	0.033	mg/Kg		03/01/15 09:28	03/04/15 10:09	1

Client Sample ID: SB3-20

Date Collected: 02/24/15 14:20
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-30

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	ND		0.097	0.033	mg/Kg		03/01/15 09:28	03/04/15 10:09	1
Aroclor 1248	ND		0.097	0.033	mg/Kg		03/01/15 09:28	03/04/15 10:09	1
Aroclor 1254	ND		0.097	0.033	mg/Kg		03/01/15 09:28	03/04/15 10:09	1
Aroclor 1260	ND		0.097	0.033	mg/Kg		03/01/15 09:28	03/04/15 10:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*03/01/15 09:28*	*03/04/15 10:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Arsenic	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Barium	**400**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Beryllium	**0.30**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Chromium	**92**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Cobalt	**28**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Copper	**28**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Lead	ND		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Nickel	**110**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Silver	**1.2**	**J**	1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Thallium	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Vanadium	**46**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:29	5
Zinc	**56**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:29	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.020	0.012	mg/Kg		03/02/15 19:28	03/03/15 10:52	1

Client Sample ID: SB1-1

Date Collected: 02/24/15 16:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-31

Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
1,2-Dichlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2,4,6-Trichlorophenol	ND		0.33	0.074	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2,4-Dichlorophenol	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2,4-Dinitrophenol	ND	*	0.65	0.33	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2,4-Dinitrotoluene	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2,6-Dinitrotoluene	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2-Chloronaphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB1-1
Date Collected: 02/24/15 16:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-31
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2-Methylnaphthalene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2-Methylphenol	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2-Nitroaniline	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
3,3'-Dichlorobenzidine	ND		0.82	0.15	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
4,6-Dinitro-2-methylphenol	ND	*	0.41	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
4-Bromophenyl phenyl ether	ND		0.33	0.074	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
4-Chloro-3-methylphenol	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
4-Chlorophenyl phenyl ether	ND		0.33	0.084	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
4-Nitroaniline	ND		0.82	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
4-Nitrophenol	ND	*	0.82	0.14	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Acenaphthene	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Acenaphthylene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Aniline	ND		0.41	0.084	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Anthracene	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzidine	ND		1.3	0.65	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzo[a]anthracene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzo[a]pyrene	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzo[b]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzo[k]fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzoic acid	ND		0.82	0.33	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Bis(2-chloroethyl)ether	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Butyl benzyl phthalate	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Chrysene	ND		0.33	0.074	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Dibenz(a,h)anthracene	ND		0.41	0.098	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Dibenzofuran	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Diethyl phthalate	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Dimethyl phthalate	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Di-n-butyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Di-n-octyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Fluoranthene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Fluorene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Hexachlorobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Hexachlorocyclopentadiene	ND		0.82	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Isophorone	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Naphthalene	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Nitrobenzene	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1

Client Sample ID: SB1-1
Date Collected: 02/24/15 16:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-31
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		0.33	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
N-Nitrosodi-n-propylamine	ND		0.25	0.069	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
N-Nitrosodiphenylamine	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Pentachlorophenol	ND	*	0.82	0.33	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Phenanthrene	ND		0.33	0.066	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Phenol	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 03:42	1
Pyrene	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/09/15 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*35 - 120*	*02/28/15 12:30*	*03/09/15 03:42*	*1*
2-Fluorophenol (Surr)	*79*		*25 - 120*	*02/28/15 12:30*	*03/09/15 03:42*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*35 - 125*	*02/28/15 12:30*	*03/09/15 03:42*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 120*	*02/28/15 12:30*	*03/09/15 03:42*	*1*
Terphenyl-d14 (Surr)	*88*		*40 - 135*	*02/28/15 12:30*	*03/09/15 03:42*	*1*
Phenol-d6 (Surr)	*86*		*35 - 120*	*02/28/15 12:30*	*03/09/15 03:42*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Chlordane (technical)	ND		0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:25	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*35 - 115*	*03/03/15 10:43*	*03/03/15 21:25*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*03/03/15 10:43*	*03/03/15 21:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:51	1
Aroclor 1221	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:51	1
Aroclor 1232	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:51	1
Aroclor 1242	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:51	1
Aroclor 1248	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:51	1

Client Sample ID: SB1-1

Lab Sample ID: 440-102760-31

Date Collected: 02/24/15 16:00

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:51	1
Aroclor 1260	ND		0.049	0.017	mg/Kg		03/01/15 09:28	03/03/15 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*03/01/15 09:28*	*03/03/15 22:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8	4.9	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Arsenic	**3.7**		2.9	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Barium	**170**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Beryllium	**0.39**	**J**	0.49	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Cadmium	ND		0.49	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Chromium	**38**		0.98	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Cobalt	**11**		0.98	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Copper	**20**		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Lead	**42**		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Molybdenum	ND		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Nickel	**32**		2.0	0.98	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Selenium	ND		2.9	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Silver	**1.6**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Thallium	ND		9.8	4.9	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Vanadium	**38**		0.98	0.49	mg/Kg		02/26/15 11:30	03/01/15 17:31	5
Zinc	**46**		4.9	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:31	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 04:48	1

Client Sample ID: SB1-5

Lab Sample ID: 440-102760-32

Date Collected: 02/24/15 16:10

Matrix: Solid

Date Received: 02/25/15 09:10

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
1,1,1-Trichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,1,2-Trichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,1-Dichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,1-Dichloroethene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
1,1-Dichloropropene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,2,3-Trichlorobenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
1,2,3-Trichloropropane	ND		0.0099	0.00099	mg/Kg			03/02/15 13:59	1
1,2,4-Trichlorobenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
1,2,4-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/Kg			03/02/15 13:59	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,2-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,2-Dichloroethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB1-5
Date Collected: 02/24/15 16:10
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-32
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,3,5-Trimethylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,3-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,3-Dichloropropane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
1,4-Dichlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
2,2-Dichloropropane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
2-Chlorotoluene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
4-Chlorotoluene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Benzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Bromobenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Bromochloromethane	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Bromodichloromethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Bromoform	ND		0.0050	0.0020	mg/Kg			03/02/15 13:59	1
Bromomethane	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Carbon tetrachloride	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Chlorobenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Chloroethane	ND		0.0050	0.0020	mg/Kg			03/02/15 13:59	1
Chloroform	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Chloromethane	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
cis-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
cis-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Dibromochloromethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Dibromomethane	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Dichlorodifluoromethane	ND		0.0050	0.0020	mg/Kg			03/02/15 13:59	1
Ethylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Hexachlorobutadiene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Isopropylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
m,p-Xylene	ND		0.0040	0.0020	mg/Kg			03/02/15 13:59	1
Methylene Chloride	ND		0.020	0.0050	mg/Kg			03/02/15 13:59	1
Naphthalene	ND		0.0050	0.0020	mg/Kg			03/02/15 13:59	1
n-Butylbenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
N-Propylbenzene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
o-Xylene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
p-Isopropyltoluene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
sec-Butylbenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Styrene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
tert-Butylbenzene	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Tetrachloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Toluene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
trans-1,2-Dichloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
trans-1,3-Dichloropropene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Trichloroethene	ND		0.0020	0.00099	mg/Kg			03/02/15 13:59	1
Trichlorofluoromethane	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1
Vinyl chloride	ND		0.0050	0.00099	mg/Kg			03/02/15 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*79 - 123*		*03/02/15 13:59*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*03/02/15 13:59*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 120*		*03/02/15 13:59*	*1*

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB1-5
Date Collected: 02/24/15 16:10
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-32
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2,4-Dinitrophenol	ND	*	0.66	0.33	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2,4-Dinitrotoluene	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2,6-Dinitrotoluene	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
3,3'-Dichlorobenzidine	ND		0.83	0.15	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
4-Chlorophenyl phenyl ether	ND		0.33	0.084	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
4-Nitroaniline	ND		0.83	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
4-Nitrophenol	ND	*	0.83	0.14	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Acenaphthene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Aniline	ND		0.42	0.084	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Anthracene	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzidine	ND		1.3	0.66	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzoic acid	ND		0.83	0.34	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Butyl benzyl phthalate	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Chrysene	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Dibenz(a,h)anthracene	ND		0.42	0.099	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Diethyl phthalate	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/09/15 04:03	1

Client Sample ID: SB1-5
Date Collected: 02/24/15 16:10
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-32
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Di-n-butyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Di-n-octyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Fluorene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Hexachlorocyclopentadiene	ND		0.83	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Isophorone	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Naphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
N-Nitrosodimethylamine	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
N-Nitrosodiphenylamine	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Pentachlorophenol	ND	*	0.83	0.34	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Phenanthrene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Phenol	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:03	1
Pyrene	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*35 - 120*	*02/28/15 12:30*	*03/09/15 04:03*	*1*
2-Fluorophenol (Surr)	*72*		*25 - 120*	*02/28/15 12:30*	*03/09/15 04:03*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*35 - 125*	*02/28/15 12:30*	*03/09/15 04:03*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 120*	*02/28/15 12:30*	*03/09/15 04:03*	*1*
Terphenyl-d14 (Surr)	*80*		*40 - 135*	*02/28/15 12:30*	*03/09/15 04:03*	*1*
Phenol-d6 (Surr)	*75*		*35 - 120*	*02/28/15 12:30*	*03/09/15 04:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*65 - 140*		*02/27/15 03:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 18:16	1
ORO (C23-C40)	**16**		5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*94*		*40 - 140*	*02/27/15 11:46*	*02/27/15 18:16*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.0018**	**J**	0.0050	0.0015	mg/Kg		03/03/15 10:43	03/04/15 16:08	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1

Client Sample ID: SB1-5
Date Collected: 02/24/15 16:10
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-32
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Chlordane (technical)	**0.023**	**J**	0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:38	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*35 - 115*	*03/03/15 10:43*	*03/03/15 21:38*	*1*
Tetrachloro-m-xylene	*59*		*35 - 115*	*03/03/15 10:43*	*03/04/15 16:08*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*03/03/15 10:43*	*03/03/15 21:38*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*03/03/15 10:43*	*03/04/15 16:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:05	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:05	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:05	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:05	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:05	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:05	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*03/01/15 09:28*	*03/03/15 23:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Arsenic	**3.5**		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Barium	**140**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Beryllium	**0.38**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Chromium	**34**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Cobalt	**10**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Copper	**17**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Lead	**7.4**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Nickel	**29**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Silver	**1.8**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:33	5

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB1-5
Date Collected: 02/24/15 16:10
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-32
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Vanadium	37		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:33	5
Zinc	44		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:33	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.012	mg/Kg		03/02/15 19:28	03/03/15 10:54	1

Client Sample ID: SB2-1
Date Collected: 02/24/15 16:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-36
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2,4-Dinitrophenol	ND	*	0.66	0.33	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2,4-Dinitrotoluene	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2,6-Dinitrotoluene	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
3,3'-Dichlorobenzidine	ND		0.83	0.15	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
4-Chlorophenyl phenyl ether	ND		0.33	0.084	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
4-Nitroaniline	ND		0.83	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
4-Nitrophenol	ND	*	0.83	0.14	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Acenaphthene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Aniline	ND		0.42	0.084	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Anthracene	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Benzidine	ND		1.3	0.66	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB2-1
Date Collected: 02/24/15 16:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-36
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Benzoic acid	ND		0.83	0.34	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Butyl benzyl phthalate	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Chrysene	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Dibenz(a,h)anthracene	ND		0.42	0.099	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Diethyl phthalate	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Di-n-butyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Di-n-octyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Fluorene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Hexachlorocyclopentadiene	ND		0.83	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Isophorone	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Naphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
N-Nitrosodimethylamine	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
N-Nitrosodiphenylamine	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Pentachlorophenol	ND	*	0.83	0.34	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Phenanthrene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Phenol	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/09/15 04:24	1
Pyrene	ND		0.33	0.080	mg/Kg		02/28/15 12:30	03/09/15 04:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*35 - 120*	*02/28/15 12:30*	*03/09/15 04:24*	*1*
2-Fluorophenol (Surr)	*74*		*25 - 120*	*02/28/15 12:30*	*03/09/15 04:24*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*35 - 125*	*02/28/15 12:30*	*03/09/15 04:24*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 120*	*02/28/15 12:30*	*03/09/15 04:24*	*1*
Terphenyl-d14 (Surr)	*81*		*40 - 135*	*02/28/15 12:30*	*03/09/15 04:24*	*1*
Phenol-d6 (Surr)	*78*		*35 - 120*	*02/28/15 12:30*	*03/09/15 04:24*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1

Client Sample ID: SB2-1
Date Collected: 02/24/15 16:50
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-36
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Chlordane (technical)	ND		0.050	0.0099	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
delta-BHC	ND		0.0099	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Endosulfan sulfate	ND		0.0099	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 21:52	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 115*	*03/03/15 10:43*	*03/03/15 21:52*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*03/03/15 10:43*	*03/03/15 21:52*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:19	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:19	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:19	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:19	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:19	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:19	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*03/01/15 09:28*	*03/03/15 23:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Arsenic	**2.6**	**J**	3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Barium	**210**		1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Beryllium	**0.39**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Cadmium	**0.40**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Chromium	**52**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Cobalt	**20**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Copper	**26**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Lead	**5.8**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Molybdenum	ND		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Nickel	**65**		2.0	0.99	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Silver	**1.2**	**J**	1.5	0.74	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Thallium	ND		9.9	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:34	5
Vanadium	**47**		0.99	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:34	5

Client Sample ID: SB2-1
Lab Sample ID: 440-102760-36
Date Collected: 02/24/15 16:50
Matrix: Solid
Date Received: 02/25/15 09:10

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	53		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:34	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 04:40	1

Client Sample ID: SB2-5
Lab Sample ID: 440-102760-37
Date Collected: 02/24/15 17:00
Matrix: Solid
Date Received: 02/25/15 09:10

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
1,1,1-Trichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,1,2-Trichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,1-Dichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,1-Dichloroethene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
1,1-Dichloropropene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
1,2,3-Trichloropropane	ND		0.010	0.0010	mg/Kg			03/02/15 14:30	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
1,2,4-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/Kg			03/02/15 14:30	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,2-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,2-Dichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,3,5-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,3-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,3-Dichloropropane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
1,4-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
2,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
2-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
4-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Benzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Bromobenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Bromochloromethane	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Bromodichloromethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Bromoform	ND		0.0050	0.0020	mg/Kg			03/02/15 14:30	1
Bromomethane	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Carbon tetrachloride	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Chlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Chloroethane	ND		0.0050	0.0020	mg/Kg			03/02/15 14:30	1
Chloroform	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Chloromethane	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
cis-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
cis-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Dibromochloromethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Dibromomethane	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1

Client Sample ID: SB2-5
Date Collected: 02/24/15 17:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-37
Matrix: Solid

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.0050	0.0020	mg/Kg			03/02/15 14:30	1
Ethylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Hexachlorobutadiene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Isopropylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
m,p-Xylene	ND		0.0040	0.0020	mg/Kg			03/02/15 14:30	1
Methylene Chloride	ND		0.020	0.0050	mg/Kg			03/02/15 14:30	1
Naphthalene	ND		0.0050	0.0020	mg/Kg			03/02/15 14:30	1
n-Butylbenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
N-Propylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
o-Xylene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
p-Isopropyltoluene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
sec-Butylbenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Styrene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
tert-Butylbenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Tetrachloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Toluene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
trans-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
trans-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Trichloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 14:30	1
Trichlorofluoromethane	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1
Vinyl chloride	ND		0.0050	0.0010	mg/Kg			03/02/15 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*79 - 123*		*03/02/15 14:30*	*1*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*		*03/02/15 14:30*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 120*		*03/02/15 14:30*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2,4-Dinitrophenol	ND	*	0.66	0.33	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2,4-Dinitrotoluene	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2,6-Dinitrotoluene	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2-Methylphenol	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
3,3'-Dichlorobenzidine	ND		0.82	0.15	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB2-5
Date Collected: 02/24/15 17:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-37
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
4,6-Dinitro-2-methylphenol	ND	*	0.42	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
4-Chlorophenyl phenyl ether	ND		0.33	0.084	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
4-Nitroaniline	ND		0.82	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
4-Nitrophenol	ND	*	0.82	0.14	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Acenaphthene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Aniline	ND		0.42	0.084	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Anthracene	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzidine	ND		1.3	0.66	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzoic acid	ND		0.82	0.34	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Bis(2-ethylhexyl) phthalate	**0.31**	**J**	0.33	0.089	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Butyl benzyl phthalate	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Chrysene	ND		0.33	0.075	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Dibenz(a,h)anthracene	ND		0.42	0.099	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Diethyl phthalate	ND		0.33	0.094	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Di-n-butyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Di-n-octyl phthalate	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Fluorene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Hexachlorocyclopentadiene	ND		0.82	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Isophorone	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Naphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
N-Nitrosodimethylamine	ND		0.33	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
N-Nitrosodiphenylamine	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Pentachlorophenol	ND	*	0.82	0.34	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Phenanthrene	ND		0.33	0.067	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Phenol	ND		0.33	0.089	mg/Kg		02/28/15 12:30	03/07/15 09:06	1
Pyrene	ND		0.33	0.079	mg/Kg		02/28/15 12:30	03/07/15 09:06	1

Client Sample ID: SB2-5
Date Collected: 02/24/15 17:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-37
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		35 - 120	02/28/15 12:30	03/07/15 09:06	1
2-Fluorophenol (Surr)	78		25 - 120	02/28/15 12:30	03/07/15 09:06	1
2,4,6-Tribromophenol (Surr)	99		35 - 125	02/28/15 12:30	03/07/15 09:06	1
Nitrobenzene-d5 (Surr)	76		30 - 120	02/28/15 12:30	03/07/15 09:06	1
Terphenyl-d14 (Surr)	88		40 - 135	02/28/15 12:30	03/07/15 09:06	1
Phenol-d6 (Surr)	85		35 - 120	02/28/15 12:30	03/07/15 09:06	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		65 - 140		02/27/15 05:40	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	2.8	J	5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 17:16	1
ORO (C23-C40)	16		5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	86		40 - 140	02/27/15 11:46	02/27/15 17:16	1

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
4,4'-DDE	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
4,4'-DDT	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Aldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
alpha-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
beta-BHC	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Chlordane (technical)	ND		0.049	0.0099	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
delta-BHC	ND		0.0099	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Dieldrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Endosulfan I	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Endosulfan II	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Endosulfan sulfate	ND		0.0099	0.0020	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Endrin	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Endrin aldehyde	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Endrin ketone	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
gamma-BHC (Lindane)	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Heptachlor	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Heptachlor epoxide	ND		0.0049	0.0020	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Methoxychlor	ND		0.0049	0.0015	mg/Kg		03/03/15 10:43	03/03/15 22:06	1
Toxaphene	ND		0.20	0.049	mg/Kg		03/03/15 10:43	03/03/15 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		35 - 115	03/03/15 10:43	03/03/15 22:06	1
DCB Decachlorobiphenyl (Surr)	71		45 - 120	03/03/15 10:43	03/03/15 22:06	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:33	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB2-5
Date Collected: 02/24/15 17:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-37
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:33	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:33	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:33	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:33	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:33	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*03/01/15 09:28*	*03/03/15 23:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Arsenic	**2.5**	**J**	3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Barium	**270**		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Beryllium	**0.39**	**J**	0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Chromium	**45**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Cobalt	**18**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Copper	**25**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Lead	**9.4**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Nickel	**52**		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Silver	**1.0**	**J**	1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Vanadium	**42**		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 17:41	5
Zinc	**51**		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 17:41	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**	**J**	0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 05:07	1

Method Summary

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Method	Method Description	Protocol	Laboratory
8260B/5030B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: SB8-1

Lab Sample ID: 440-102760-1

Date Collected: 02/24/15 07:20

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.13 g	1 mL	241228	03/09/15 00:34	DF	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.01 g	2 mL	240118	03/03/15 18:25	KS	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.06 g	2 mL	240111	03/03/15 19:49	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	239779	03/01/15 16:54	VS	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.51 g	50 mL	240130	03/03/15 05:02	EN	TAL IRV

Client Sample ID: SB8-5

Lab Sample ID: 440-102760-2

Date Collected: 02/24/15 07:30

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.14 g	10 mL	239599	02/28/15 17:57	AA	TAL IRV
Total/NA	Prep	3546			15.03 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.03 g	1 mL	241228	03/09/15 00:55	DF	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	239107	02/26/15 23:15	IM	TAL IRV
Total/NA	Prep	3546			15.13 g	1 mL	239359	02/27/15 07:40	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.13 g	1 mL	239384	02/27/15 13:12	KW	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	240118	03/03/15 18:39	KS	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.05 g	2 mL	240111	03/03/15 20:03	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	239779	03/01/15 17:00	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239524	02/27/15 17:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	239581	02/28/15 03:04	DB	TAL IRV

Client Sample ID: SB7-1

Lab Sample ID: 440-102760-6

Date Collected: 02/24/15 08:20

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.38 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.38 g	1 mL	241098	03/07/15 04:12	VS	TAL IRV
Total/NA	Prep	3546			15.07 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.07 g	2 mL	240118	03/03/15 18:52	KS	TAL IRV
Total/NA	Prep	3546			15.07 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.07 g	2 mL	240417	03/04/15 15:41	KS	TAL IRV
Total/NA	Prep	3546			15.24 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV

Client Sample ID: SB7-1

Lab Sample ID: 440-102760-6

Date Collected: 02/24/15 08:20

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	15.24 g	2 mL	240111	03/03/15 20:16	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	239779	03/01/15 17:02	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	240130	03/03/15 05:00	EN	TAL IRV

Client Sample ID: SB7-5

Lab Sample ID: 440-102760-7

Date Collected: 02/24/15 08:30

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.03 g	10 mL	239599	02/28/15 18:26	AA	TAL IRV
Total/NA	Prep	3546			15.35 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.35 g	1 mL	241228	03/09/15 01:16	DF	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	239107	02/27/15 00:32	IM	TAL IRV
Total/NA	Prep	3546			15.14 g	1 mL	239359	02/27/15 07:40	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.14 g	1 mL	239384	02/27/15 13:36	KW	TAL IRV
Total/NA	Prep	3546			15.26 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.26 g	2 mL	240118	03/03/15 19:06	KS	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.02 g	2 mL	240111	03/03/15 20:30	JM	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.04 g	50 mL	239779	03/01/15 17:04	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	239524	02/27/15 17:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	239581	02/28/15 03:07	DB	TAL IRV

Client Sample ID: SB5-1

Lab Sample ID: 440-102760-11

Date Collected: 02/24/15 09:40

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.39 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.39 g	1 mL	241228	03/09/15 01:37	DF	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.02 g	2 mL	240118	03/03/15 19:20	KS	TAL IRV
Total/NA	Prep	3546			15.23 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.23 g	2 mL	240111	03/03/15 20:44	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	239779	03/01/15 17:06	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	240130	03/03/15 04:57	EN	TAL IRV

Client Sample ID: SB5-5

Lab Sample ID: 440-102760-12

Date Collected: 02/24/15 09:50

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5 g	10 mL	239599	02/28/15 18:54	AA	TAL IRV
Total/NA	Prep	3546			15.22 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.22 g	1 mL	241228	03/09/15 01:57	DF	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	239107	02/27/15 00:57	IM	TAL IRV
Total/NA	Prep	3546			15.12 g	1 mL	239359	02/27/15 07:40	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.12 g	1 mL	239384	02/27/15 13:56	KW	TAL IRV
Total/NA	Prep	3546			15.18 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.18 g	2 mL	240118	03/03/15 19:34	KS	TAL IRV
Total/NA	Prep	3546			15.20 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.20 g	2 mL	240111	03/03/15 20:58	JM	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	239779	03/01/15 17:08	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239524	02/27/15 17:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	239581	02/28/15 03:09	DB	TAL IRV

Client Sample ID: SB6-1

Lab Sample ID: 440-102760-16

Date Collected: 02/24/15 10:30

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.15 g	1 mL	241228	03/09/15 02:18	DF	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	240118	03/03/15 19:48	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.10 g	2 mL	240417	03/04/15 15:55	KS	TAL IRV
Total/NA	Prep	3546			15.26 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.26 g	2 mL	240111	03/03/15 21:14	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	239779	03/01/15 17:17	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	240130	03/03/15 04:55	EN	TAL IRV

Client Sample ID: SB6-5

Lab Sample ID: 440-102760-17

Date Collected: 02/24/15 10:40

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.08 g	10 mL	239599	02/28/15 19:22	AA	TAL IRV
Total/NA	Prep	3546			15.33 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.33 g	1 mL	241098	03/07/15 05:57	VS	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	239107	02/27/15 01:23	IM	TAL IRV
Total/NA	Prep	3546			15.15 g	1 mL	239359	02/27/15 07:40	AP	TAL IRV

Client Sample ID: SB6-5

Lab Sample ID: 440-102760-17

Date Collected: 02/24/15 10:40

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	15.15 g	1 mL	239384	02/27/15 14:16	KW	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.01 g	2 mL	240118	03/03/15 20:02	KS	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.06 g	2 mL	240111	03/03/15 21:28	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	239779	03/01/15 17:19	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	239524	02/27/15 17:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	239581	02/28/15 03:02	DB	TAL IRV

Client Sample ID: SB4-1

Lab Sample ID: 440-102760-21

Date Collected: 02/24/15 12:30

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.02 g	1 mL	241098	03/07/15 06:19	VS	TAL IRV
Total/NA	Prep	3546			15.26 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.26 g	2 mL	240118	03/03/15 20:15	KS	TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.04 g	2 mL	240111	03/03/15 21:42	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	239779	03/01/15 17:21	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	240130	03/03/15 04:52	EN	TAL IRV

Client Sample ID: SB4-5

Lab Sample ID: 440-102760-22

Date Collected: 02/24/15 12:40

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.07 g	10 mL	239599	02/28/15 19:50	AA	TAL IRV
Total/NA	Prep	3546			15.01 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.01 g	1 mL	241228	03/09/15 02:39	DF	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	239107	02/27/15 01:48	IM	TAL IRV
Total/NA	Prep	3546			15.16 g	1 mL	239359	02/27/15 07:40	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.16 g	1 mL	239385	02/27/15 12:31	KW	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.01 g	2 mL	240118	03/03/15 20:29	KS	TAL IRV
Total/NA	Prep	3546			15.23 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.23 g	2 mL	240111	03/03/15 21:55	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	239779	03/01/15 17:23	VS	TAL IRV

Client Sample ID: SB4-5

Lab Sample ID: 440-102760-22

Date Collected: 02/24/15 12:40

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.49 g	50 mL	239524	02/27/15 17:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	239581	02/28/15 03:12	DB	TAL IRV

Client Sample ID: SB3-1

Lab Sample ID: 440-102760-26

Date Collected: 02/24/15 13:40

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.32 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	7.32 g	1 mL	241228	03/09/15 03:00	DF	TAL IRV
Total/NA	Prep	3546			15.08 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.08 g	2 mL	240118	03/03/15 20:43	KS	TAL IRV
Total/NA	Prep	3546			7.82 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	7.82 g	2 mL	240111	03/03/15 22:09	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	239779	03/01/15 17:25	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	240130	03/03/15 04:50	EN	TAL IRV

Client Sample ID: SB3-5

Lab Sample ID: 440-102760-27

Date Collected: 02/24/15 13:50

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.09 g	10 mL	239599	02/28/15 20:19	AA	TAL IRV
Total/NA	Prep	3546			15.27 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.27 g	1 mL	241228	03/09/15 03:21	DF	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	239107	02/27/15 02:14	IM	TAL IRV
Total/NA	Prep	3546			15.12 g	1 mL	239359	02/27/15 07:40	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.12 g	1 mL	239385	02/27/15 12:52	KW	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.13 g	2 mL	240118	03/03/15 20:57	KS	TAL IRV
Total/NA	Prep	3546			15.08 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.08 g	2 mL	240111	03/03/15 22:23	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	239779	03/01/15 17:27	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239524	02/27/15 17:50	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	239581	02/28/15 03:14	DB	TAL IRV

Client Sample ID: SB3-20

Lab Sample ID: 440-102760-30

Date Collected: 02/24/15 14:20

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.05 g	10 mL	239764	03/02/15 12:30	AL	TAL IRV
Total/NA	Analysis	8260B/5030B	RA	1	5.04 g	10 mL	240034	03/03/15 11:23	AL	TAL IRV
Total/NA	Prep	3546			7.51 g	1 mL	239632	02/28/15 12:20	KDP	TAL IRV
Total/NA	Analysis	8270C		1	7.51 g	1 mL	241098	03/07/15 07:42	VS	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	239107	02/27/15 02:40	IM	TAL IRV
Total/NA	Prep	3546			15.14 g	1 mL	239433	02/27/15 11:46	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.14 g	1 mL	239385	02/27/15 16:56	KW	TAL IRV
Total/NA	Prep	3546			7.48 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	7.48 g	2 mL	240118	03/03/15 21:11	KS	TAL IRV
Total/NA	Prep	3546			7.72 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	7.72 g	2 mL	240111	03/04/15 10:09	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	239779	03/01/15 17:29	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239982	03/02/15 19:28	EN	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	240132	03/03/15 10:52	EN	TAL IRV

Client Sample ID: SB1-1

Lab Sample ID: 440-102760-31

Date Collected: 02/24/15 16:00

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	1 mL	239632	02/28/15 12:30	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.23 g	1 mL	241228	03/09/15 03:42	DF	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.06 g	2 mL	240118	03/03/15 21:25	KS	TAL IRV
Total/NA	Prep	3546			15.18 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.18 g	2 mL	240111	03/03/15 22:51	JM	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.04 g	50 mL	239779	03/01/15 17:31	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	240130	03/03/15 04:48	EN	TAL IRV

Client Sample ID: SB1-5

Lab Sample ID: 440-102760-32

Date Collected: 02/24/15 16:10

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.03 g	10 mL	239764	03/02/15 13:59	AL	TAL IRV
Total/NA	Prep	3546			15.09 g	1 mL	239632	02/28/15 12:30	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.09 g	1 mL	241228	03/09/15 04:03	DF	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	239107	02/27/15 03:06	IM	TAL IRV
Total/NA	Prep	3546			15.15 g	1 mL	239433	02/27/15 11:46	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.15 g	1 mL	239384	02/27/15 18:16	KW	TAL IRV

Client Sample ID: SB1-5

Lab Sample ID: 440-102760-32

Date Collected: 02/24/15 16:10

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.06 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.06 g	2 mL	240118	03/03/15 21:38	KS	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.06 g	2 mL	240417	03/04/15 16:08	KS	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.13 g	2 mL	240111	03/03/15 23:05	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	239779	03/01/15 17:33	VS	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	239982	03/02/15 19:28	EN	TAL IRV
Total/NA	Analysis	7471A		1	0.49 g	50 mL	240132	03/03/15 10:54	EN	TAL IRV

Client Sample ID: SB2-1

Lab Sample ID: 440-102760-36

Date Collected: 02/24/15 16:50

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	1 mL	239632	02/28/15 12:30	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.09 g	1 mL	241228	03/09/15 04:24	DF	TAL IRV
Total/NA	Prep	3546			15.13 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.13 g	2 mL	240118	03/03/15 21:52	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	240111	03/03/15 23:19	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	239779	03/01/15 17:34	VS	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.50 g	50 mL	240130	03/03/15 04:40	EN	TAL IRV

Client Sample ID: SB2-5

Lab Sample ID: 440-102760-37

Date Collected: 02/24/15 17:00

Matrix: Solid

Date Received: 02/25/15 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	5.02 g	10 mL	239764	03/02/15 14:30	AL	TAL IRV
Total/NA	Prep	3546			15.10 g	1 mL	239632	02/28/15 12:30	KDP	TAL IRV
Total/NA	Analysis	8270C		1	15.10 g	1 mL	241098	03/07/15 09:06	VS	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	239228	02/27/15 05:40	IM	TAL IRV
Total/NA	Prep	3546			15.11 g	1 mL	239433	02/27/15 11:46	AP	TAL IRV
Total/NA	Analysis	8015B		1	15.11 g	1 mL	239385	02/27/15 17:16	KW	TAL IRV
Total/NA	Prep	3546			15.18 g	2 mL	240107	03/03/15 10:43	KDP	TAL IRV
Total/NA	Analysis	8081A		1	15.18 g	2 mL	240118	03/03/15 22:06	KS	TAL IRV
Total/NA	Prep	3546			15.10 g	2 mL	239684	03/01/15 09:28	KDP	TAL IRV
Total/NA	Analysis	8082		1	15.10 g	2 mL	240111	03/03/15 23:33	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	239082	02/26/15 11:30	DT	TAL IRV

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Client Sample ID: SB2-5
Date Collected: 02/24/15 17:00
Date Received: 02/25/15 09:10

Lab Sample ID: 440-102760-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		5	2.01 g	50 mL	239779	03/01/15 17:41	VS	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	239868	03/02/15 13:23	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.51 g	50 mL	240130	03/03/15 05:07	EN	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-239599/4
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
1,1,1-Trichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,1,2-Trichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,1-Dichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,1-Dichloroethene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
1,1-Dichloropropene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
1,2,3-Trichloropropane	ND		0.010	0.0010	mg/Kg			02/28/15 11:20	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
1,2,4-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/Kg			02/28/15 11:20	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,2-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,2-Dichloroethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,3,5-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,3-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,3-Dichloropropane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
1,4-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
2,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
2-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
4-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Benzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Bromobenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Bromochloromethane	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Bromodichloromethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Bromoform	ND		0.0050	0.0020	mg/Kg			02/28/15 11:20	1
Bromomethane	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Carbon tetrachloride	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Chlorobenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Chloroethane	ND		0.0050	0.0020	mg/Kg			02/28/15 11:20	1
Chloroform	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Chloromethane	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
cis-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
cis-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Dibromochloromethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Dibromomethane	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Dichlorodifluoromethane	ND		0.0050	0.0020	mg/Kg			02/28/15 11:20	1
Ethylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Hexachlorobutadiene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Isopropylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
m,p-Xylene	ND		0.0040	0.0020	mg/Kg			02/28/15 11:20	1
Methylene Chloride	ND		0.020	0.0050	mg/Kg			02/28/15 11:20	1
Naphthalene	ND		0.0050	0.0020	mg/Kg			02/28/15 11:20	1
n-Butylbenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
N-Propylbenzene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
o-Xylene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-239599/4
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
sec-Butylbenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Styrene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
tert-Butylbenzene	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Tetrachloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Toluene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
trans-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
trans-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Trichloroethene	ND		0.0020	0.0010	mg/Kg			02/28/15 11:20	1
Trichlorofluoromethane	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1
Vinyl chloride	ND		0.0050	0.0010	mg/Kg			02/28/15 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*79 - 123*		*02/28/15 11:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*		*02/28/15 11:20*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*02/28/15 11:20*	*1*

Lab Sample ID: LCS 440-239599/5
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0554		mg/Kg		111	70 - 130
1,1,1-Trichloroethane	0.0500	0.0497		mg/Kg		99	65 - 135
1,1,2,2-Tetrachloroethane	0.0500	0.0475		mg/Kg		95	55 - 140
1,1,2-Trichloroethane	0.0500	0.0495		mg/Kg		99	65 - 135
1,1-Dichloroethane	0.0500	0.0491		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0500	0.0504		mg/Kg		101	70 - 125
1,1-Dichloropropene	0.0500	0.0549		mg/Kg		110	70 - 130
1,2,3-Trichlorobenzene	0.0500	0.0562		mg/Kg		112	60 - 130
1,2,3-Trichloropropane	0.0500	0.0496		mg/Kg		99	60 - 135
1,2,4-Trichlorobenzene	0.0500	0.0604		mg/Kg		121	70 - 135
1,2,4-Trimethylbenzene	0.0500	0.0515		mg/Kg		103	70 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0455		mg/Kg		91	50 - 135
1,2-Dibromoethane (EDB)	0.0500	0.0542		mg/Kg		108	70 - 130
1,2-Dichlorobenzene	0.0500	0.0539		mg/Kg		108	75 - 120
1,2-Dichloroethane	0.0500	0.0461		mg/Kg		92	60 - 140
1,2-Dichloropropane	0.0500	0.0506		mg/Kg		101	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.0525		mg/Kg		105	70 - 125
1,3-Dichlorobenzene	0.0500	0.0533		mg/Kg		107	75 - 125
1,3-Dichloropropane	0.0500	0.0502		mg/Kg		100	70 - 125
1,4-Dichlorobenzene	0.0500	0.0537		mg/Kg		107	75 - 120
2,2-Dichloropropane	0.0500	0.0540		mg/Kg		108	60 - 145
2-Chlorotoluene	0.0500	0.0512		mg/Kg		102	70 - 125
4-Chlorotoluene	0.0500	0.0519		mg/Kg		104	75 - 125
Benzene	0.0500	0.0521		mg/Kg		104	65 - 120
Bromobenzene	0.0500	0.0571		mg/Kg		114	75 - 120
Bromochloromethane	0.0500	0.0563		mg/Kg		113	70 - 135

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-239599/5
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	0.0500	0.0491		mg/Kg		98	70 - 135
Bromoform	0.0500	0.0574		mg/Kg		115	55 - 135
Bromomethane	0.0500	0.0439		mg/Kg		88	60 - 145
Carbon tetrachloride	0.0500	0.0531		mg/Kg		106	65 - 140
Chlorobenzene	0.0500	0.0519		mg/Kg		104	75 - 120
Chloroethane	0.0500	0.0433		mg/Kg		87	60 - 140
Chloroform	0.0500	0.0505		mg/Kg		101	70 - 130
Chloromethane	0.0500	0.0351		mg/Kg		70	45 - 145
cis-1,2-Dichloroethene	0.0500	0.0541		mg/Kg		108	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0544		mg/Kg		109	75 - 125
Dibromochloromethane	0.0500	0.0534		mg/Kg		107	65 - 140
Dibromomethane	0.0500	0.0500		mg/Kg		100	70 - 130
Dichlorodifluoromethane	0.0500	0.0251		mg/Kg		50	35 - 160
Ethylbenzene	0.0500	0.0517		mg/Kg		103	70 - 125
Hexachlorobutadiene	0.0500	0.0664		mg/Kg		133	60 - 135
Isopropylbenzene	0.0500	0.0546		mg/Kg		109	75 - 130
m,p-Xylene	0.0500	0.0557		mg/Kg		111	70 - 125
Methylene Chloride	0.0500	0.0455		mg/Kg		91	55 - 135
Naphthalene	0.0500	0.0525		mg/Kg		105	55 - 135
n-Butylbenzene	0.0500	0.0525		mg/Kg		105	70 - 130
N-Propylbenzene	0.0500	0.0519		mg/Kg		104	70 - 130
o-Xylene	0.0500	0.0547		mg/Kg		109	70 - 125
p-Isopropyltoluene	0.0500	0.0538		mg/Kg		108	75 - 125
sec-Butylbenzene	0.0500	0.0531		mg/Kg		106	70 - 125
Styrene	0.0500	0.0520		mg/Kg		104	75 - 130
tert-Butylbenzene	0.0500	0.0550		mg/Kg		110	70 - 125
Tetrachloroethene	0.0500	0.0607		mg/Kg		121	70 - 125
Toluene	0.0500	0.0542		mg/Kg		108	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0563		mg/Kg		113	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0549		mg/Kg		110	70 - 135
Trichloroethene	0.0500	0.0561		mg/Kg		112	70 - 125
Trichlorofluoromethane	0.0500	0.0429		mg/Kg		86	60 - 145
Vinyl chloride	0.0500	0.0373		mg/Kg		75	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*79 - 123*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*101*		*60 - 120*

Lab Sample ID: 440-102987-A-1 MS
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0492	0.0532		mg/Kg		108	65 - 145
1,1,1-Trichloroethane	ND		0.0492	0.0477		mg/Kg		97	65 - 145
1,1,2,2-Tetrachloroethane	ND		0.0492	0.0505		mg/Kg		103	40 - 160
1,1,2-Trichloroethane	ND		0.0492	0.0516		mg/Kg		105	65 - 140

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102987-A-1 MS
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		0.0492	0.0472		mg/Kg		96	65 - 135
1,1-Dichloroethene	ND		0.0492	0.0494		mg/Kg		100	65 - 135
1,1-Dichloropropene	ND		0.0492	0.0523		mg/Kg		106	65 - 135
1,2,3-Trichlorobenzene	ND		0.0492	0.0523		mg/Kg		106	45 - 145
1,2,3-Trichloropropane	ND		0.0492	0.0545		mg/Kg		111	50 - 150
1,2,4-Trichlorobenzene	ND		0.0492	0.0554		mg/Kg		113	50 - 140
1,2,4-Trimethylbenzene	ND		0.0492	0.0480		mg/Kg		98	65 - 140
1,2-Dibromo-3-Chloropropane	ND		0.0492	0.0528		mg/Kg		107	40 - 150
1,2-Dibromoethane (EDB)	ND		0.0492	0.0566		mg/Kg		115	65 - 140
1,2-Dichlorobenzene	ND		0.0492	0.0518		mg/Kg		105	70 - 130
1,2-Dichloroethane	ND		0.0492	0.0454		mg/Kg		92	60 - 150
1,2-Dichloropropane	ND		0.0492	0.0476		mg/Kg		97	65 - 130
1,3,5-Trimethylbenzene	ND		0.0492	0.0498		mg/Kg		101	65 - 135
1,3-Dichlorobenzene	ND		0.0492	0.0505		mg/Kg		103	70 - 130
1,3-Dichloropropane	ND		0.0492	0.0523		mg/Kg		106	65 - 140
1,4-Dichlorobenzene	ND		0.0492	0.0512		mg/Kg		104	70 - 130
2,2-Dichloropropane	ND		0.0492	0.0520		mg/Kg		106	65 - 150
2-Chlorotoluene	ND		0.0492	0.0484		mg/Kg		98	60 - 135
4-Chlorotoluene	ND		0.0492	0.0484		mg/Kg		98	65 - 135
Benzene	ND		0.0492	0.0490		mg/Kg		100	65 - 130
Bromobenzene	ND		0.0492	0.0539		mg/Kg		109	65 - 140
Bromochloromethane	ND		0.0492	0.0528		mg/Kg		107	65 - 145
Bromodichloromethane	ND		0.0492	0.0465		mg/Kg		95	65 - 145
Bromoform	ND		0.0492	0.0603		mg/Kg		123	50 - 145
Bromomethane	ND		0.0492	0.0412		mg/Kg		84	60 - 155
Carbon tetrachloride	ND		0.0492	0.0506		mg/Kg		103	60 - 145
Chlorobenzene	ND		0.0492	0.0499		mg/Kg		101	70 - 130
Chloroethane	ND		0.0492	0.0403		mg/Kg		82	60 - 150
Chloroform	ND		0.0492	0.0479		mg/Kg		97	65 - 135
Chloromethane	ND		0.0492	0.0331		mg/Kg		67	40 - 145
cis-1,2-Dichloroethene	ND		0.0492	0.0506		mg/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		0.0492	0.0528		mg/Kg		107	70 - 135
Dibromochloromethane	ND		0.0492	0.0528		mg/Kg		107	60 - 145
Dibromomethane	ND		0.0492	0.0508		mg/Kg		103	65 - 140
Dichlorodifluoromethane	ND		0.0492	0.0273		mg/Kg		55	30 - 160
Ethylbenzene	ND		0.0492	0.0489		mg/Kg		99	70 - 135
Hexachlorobutadiene	ND		0.0492	0.0588		mg/Kg		120	50 - 145
Isopropylbenzene	ND		0.0492	0.0519		mg/Kg		105	70 - 145
m,p-Xylene	ND		0.0492	0.0530		mg/Kg		108	70 - 130
Methylene Chloride	ND		0.0492	0.0428		mg/Kg		87	55 - 145
Naphthalene	ND		0.0492	0.0549		mg/Kg		111	40 - 150
n-Butylbenzene	ND		0.0492	0.0484		mg/Kg		98	55 - 145
N-Propylbenzene	ND		0.0492	0.0489		mg/Kg		99	65 - 140
o-Xylene	ND		0.0492	0.0516		mg/Kg		105	65 - 130
p-Isopropyltoluene	ND		0.0492	0.0507		mg/Kg		103	60 - 140
sec-Butylbenzene	ND		0.0492	0.0497		mg/Kg		101	60 - 135
Styrene	ND		0.0492	0.0498		mg/Kg		101	70 - 140
tert-Butylbenzene	ND		0.0492	0.0517		mg/Kg		105	60 - 140

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102987-A-1 MS
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	ND		0.0492	0.0578		mg/Kg		117	65 - 135
Toluene	ND		0.0492	0.0509		mg/Kg		103	70 - 130
trans-1,2-Dichloroethene	ND		0.0492	0.0517		mg/Kg		105	70 - 135
trans-1,3-Dichloropropene	ND		0.0492	0.0535		mg/Kg		109	60 - 145
Trichloroethene	ND		0.0492	0.0551		mg/Kg		112	65 - 140
Trichlorofluoromethane	ND		0.0492	0.0411		mg/Kg		83	55 - 155
Vinyl chloride	ND		0.0492	0.0361		mg/Kg		73	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*79 - 123*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*100*		*60 - 120*

Lab Sample ID: 440-102987-A-1 MSD
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		0.0491	0.0558		mg/Kg		114	65 - 145	5	20
1,1,1-Trichloroethane	ND		0.0491	0.0495		mg/Kg		101	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		0.0491	0.0538		mg/Kg		110	40 - 160	6	30
1,1,2-Trichloroethane	ND		0.0491	0.0540		mg/Kg		110	65 - 140	5	30
1,1-Dichloroethane	ND		0.0491	0.0479		mg/Kg		98	65 - 135	2	25
1,1-Dichloroethene	ND		0.0491	0.0506		mg/Kg		103	65 - 135	2	25
1,1-Dichloropropene	ND		0.0491	0.0538		mg/Kg		110	65 - 135	3	20
1,2,3-Trichlorobenzene	ND		0.0491	0.0532		mg/Kg		108	45 - 145	2	30
1,2,3-Trichloropropane	ND		0.0491	0.0588		mg/Kg		120	50 - 150	8	30
1,2,4-Trichlorobenzene	ND		0.0491	0.0561		mg/Kg		114	50 - 140	1	30
1,2,4-Trimethylbenzene	ND		0.0491	0.0493		mg/Kg		100	65 - 140	3	25
1,2-Dibromo-3-Chloropropane	ND		0.0491	0.0561		mg/Kg		114	40 - 150	6	30
1,2-Dibromoethane (EDB)	ND		0.0491	0.0597		mg/Kg		122	65 - 140	5	25
1,2-Dichlorobenzene	ND		0.0491	0.0537		mg/Kg		109	70 - 130	4	25
1,2-Dichloroethane	ND		0.0491	0.0476		mg/Kg		97	60 - 150	5	25
1,2-Dichloropropane	ND		0.0491	0.0506		mg/Kg		103	65 - 130	6	20
1,3,5-Trimethylbenzene	ND		0.0491	0.0512		mg/Kg		104	65 - 135	3	25
1,3-Dichlorobenzene	ND		0.0491	0.0513		mg/Kg		104	70 - 130	2	25
1,3-Dichloropropane	ND		0.0491	0.0542		mg/Kg		110	65 - 140	4	25
1,4-Dichlorobenzene	ND		0.0491	0.0525		mg/Kg		107	70 - 130	3	25
2,2-Dichloropropane	ND		0.0491	0.0516		mg/Kg		105	65 - 150	1	25
2-Chlorotoluene	ND		0.0491	0.0498		mg/Kg		101	60 - 135	3	25
4-Chlorotoluene	ND		0.0491	0.0496		mg/Kg		101	65 - 135	2	25
Benzene	ND		0.0491	0.0510		mg/Kg		104	65 - 130	4	20
Bromobenzene	ND		0.0491	0.0567		mg/Kg		115	65 - 140	5	25
Bromochloromethane	ND		0.0491	0.0560		mg/Kg		114	65 - 145	6	25
Bromodichloromethane	ND		0.0491	0.0498		mg/Kg		101	65 - 145	7	20
Bromoform	ND		0.0491	0.0630		mg/Kg		128	50 - 145	4	30
Bromomethane	ND		0.0491	0.0434		mg/Kg		88	60 - 155	5	25
Carbon tetrachloride	ND		0.0491	0.0515		mg/Kg		105	60 - 145	2	25

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102987-A-1 MSD
Matrix: Solid
Analysis Batch: 239599

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	ND		0.0491	0.0513		mg/Kg		105	70 - 130	3	25
Chloroethane	ND		0.0491	0.0437		mg/Kg		89	60 - 150	8	25
Chloroform	ND		0.0491	0.0504		mg/Kg		103	65 - 135	5	20
Chloromethane	ND		0.0491	0.0343		mg/Kg		70	40 - 145	4	25
cis-1,2-Dichloroethene	ND		0.0491	0.0521		mg/Kg		106	65 - 135	3	25
cis-1,3-Dichloropropene	ND		0.0491	0.0541		mg/Kg		110	70 - 135	2	25
Dibromochloromethane	ND		0.0491	0.0556		mg/Kg		113	60 - 145	5	25
Dibromomethane	ND		0.0491	0.0535		mg/Kg		109	65 - 140	5	25
Dichlorodifluoromethane	ND		0.0491	0.0281		mg/Kg		57	30 - 160	3	35
Ethylbenzene	ND		0.0491	0.0501		mg/Kg		102	70 - 135	2	25
Hexachlorobutadiene	ND		0.0491	0.0582		mg/Kg		119	50 - 145	1	35
Isopropylbenzene	ND		0.0491	0.0518		mg/Kg		105	70 - 145	0	25
m,p-Xylene	ND		0.0491	0.0550		mg/Kg		112	70 - 130	4	25
Methylene Chloride	ND		0.0491	0.0450		mg/Kg		92	55 - 145	5	25
Naphthalene	ND		0.0491	0.0574		mg/Kg		117	40 - 150	5	40
n-Butylbenzene	ND		0.0491	0.0490		mg/Kg		100	55 - 145	1	30
N-Propylbenzene	ND		0.0491	0.0494		mg/Kg		100	65 - 140	1	25
o-Xylene	ND		0.0491	0.0533		mg/Kg		108	65 - 130	3	25
p-Isopropyltoluene	ND		0.0491	0.0514		mg/Kg		105	60 - 140	1	25
sec-Butylbenzene	ND		0.0491	0.0506		mg/Kg		103	60 - 135	2	25
Styrene	ND		0.0491	0.0516		mg/Kg		105	70 - 140	3	25
tert-Butylbenzene	ND		0.0491	0.0529		mg/Kg		108	60 - 140	2	25
Tetrachloroethene	ND		0.0491	0.0582		mg/Kg		119	65 - 135	1	25
Toluene	ND		0.0491	0.0527		mg/Kg		107	70 - 130	4	20
trans-1,2-Dichloroethene	ND		0.0491	0.0536		mg/Kg		109	70 - 135	4	25
trans-1,3-Dichloropropene	ND		0.0491	0.0560		mg/Kg		114	60 - 145	5	25
Trichloroethene	ND		0.0491	0.0574		mg/Kg		117	65 - 140	4	25
Trichlorofluoromethane	ND		0.0491	0.0425		mg/Kg		87	55 - 155	3	25
Vinyl chloride	ND		0.0491	0.0367		mg/Kg		75	55 - 140	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*79 - 123*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Dibromofluoromethane (Surr)	*101*		*60 - 120*

Lab Sample ID: MB 440-239764/3
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
1,1,1-Trichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,1,2-Trichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,1-Dichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,1-Dichloroethene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
1,1-Dichloropropene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-239764/3
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.010	0.0010	mg/Kg			03/02/15 08:38	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
1,2,4-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0020	mg/Kg			03/02/15 08:38	1
1,2-Dibromoethane (EDB)	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,2-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,2-Dichloroethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,3,5-Trimethylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,3-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,3-Dichloropropane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
1,4-Dichlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
2,2-Dichloropropane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
2-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
4-Chlorotoluene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Benzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Bromobenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Bromochloromethane	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Bromodichloromethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Bromoform	ND		0.0050	0.0020	mg/Kg			03/02/15 08:38	1
Bromomethane	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Carbon tetrachloride	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Chlorobenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Chloroethane	ND		0.0050	0.0020	mg/Kg			03/02/15 08:38	1
Chloroform	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Chloromethane	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
cis-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
cis-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Dibromochloromethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Dibromomethane	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Dichlorodifluoromethane	ND		0.0050	0.0020	mg/Kg			03/02/15 08:38	1
Ethylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Hexachlorobutadiene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Isopropylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
m,p-Xylene	ND		0.0040	0.0020	mg/Kg			03/02/15 08:38	1
Methylene Chloride	ND		0.020	0.0050	mg/Kg			03/02/15 08:38	1
Naphthalene	ND		0.0050	0.0020	mg/Kg			03/02/15 08:38	1
n-Butylbenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
N-Propylbenzene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
o-Xylene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
p-Isopropyltoluene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
sec-Butylbenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Styrene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
tert-Butylbenzene	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Tetrachloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Toluene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
trans-1,2-Dichloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
trans-1,3-Dichloropropene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-239764/3
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0020	0.0010	mg/Kg			03/02/15 08:38	1
Trichlorofluoromethane	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1
Vinyl chloride	ND		0.0050	0.0010	mg/Kg			03/02/15 08:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*79 - 123*		*03/02/15 08:38*	*1*
4-Bromofluorobenzene (Surr)	*111*		*79 - 120*		*03/02/15 08:38*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 120*		*03/02/15 08:38*	*1*

Lab Sample ID: LCS 440-239764/4
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0528		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0500	0.0549		mg/Kg		110	65 - 135
1,1,2,2-Tetrachloroethane	0.0500	0.0531		mg/Kg		106	55 - 140
1,1,2-Trichloroethane	0.0500	0.0528		mg/Kg		106	65 - 135
1,1-Dichloroethane	0.0500	0.0533		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0500	0.0538		mg/Kg		108	70 - 125
1,1-Dichloropropene	0.0500	0.0557		mg/Kg		111	70 - 130
1,2,3-Trichlorobenzene	0.0500	0.0517		mg/Kg		103	60 - 130
1,2,3-Trichloropropane	0.0500	0.0568		mg/Kg		114	60 - 135
1,2,4-Trichlorobenzene	0.0500	0.0524		mg/Kg		105	70 - 135
1,2,4-Trimethylbenzene	0.0500	0.0490		mg/Kg		98	70 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0555		mg/Kg		111	50 - 135
1,2-Dibromoethane (EDB)	0.0500	0.0550		mg/Kg		110	70 - 130
1,2-Dichlorobenzene	0.0500	0.0511		mg/Kg		102	75 - 120
1,2-Dichloroethane	0.0500	0.0578		mg/Kg		116	60 - 140
1,2-Dichloropropane	0.0500	0.0535		mg/Kg		107	70 - 130
1,3,5-Trimethylbenzene	0.0500	0.0487		mg/Kg		97	70 - 125
1,3-Dichlorobenzene	0.0500	0.0504		mg/Kg		101	75 - 125
1,3-Dichloropropane	0.0500	0.0512		mg/Kg		102	70 - 125
1,4-Dichlorobenzene	0.0500	0.0504		mg/Kg		101	75 - 120
2,2-Dichloropropane	0.0500	0.0534		mg/Kg		107	60 - 145
2-Chlorotoluene	0.0500	0.0496		mg/Kg		99	70 - 125
4-Chlorotoluene	0.0500	0.0495		mg/Kg		99	75 - 125
Benzene	0.0500	0.0511		mg/Kg		102	65 - 120
Bromobenzene	0.0500	0.0529		mg/Kg		106	75 - 120
Bromochloromethane	0.0500	0.0558		mg/Kg		112	70 - 135
Bromodichloromethane	0.0500	0.0557		mg/Kg		111	70 - 135
Bromoform	0.0500	0.0514		mg/Kg		103	55 - 135
Bromomethane	0.0500	0.0539		mg/Kg		108	60 - 145
Carbon tetrachloride	0.0500	0.0538		mg/Kg		108	65 - 140
Chlorobenzene	0.0500	0.0482		mg/Kg		96	75 - 120
Chloroethane	0.0500	0.0534		mg/Kg		107	60 - 140
Chloroform	0.0500	0.0536		mg/Kg		107	70 - 130
Chloromethane	0.0500	0.0554		mg/Kg		111	45 - 145

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-239764/4
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	0.0500	0.0533		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0538		mg/Kg		108	75 - 125
Dibromochloromethane	0.0500	0.0545		mg/Kg		109	65 - 140
Dibromomethane	0.0500	0.0556		mg/Kg		111	70 - 130
Dichlorodifluoromethane	0.0500	0.0575		mg/Kg		115	35 - 160
Ethylbenzene	0.0500	0.0466		mg/Kg		93	70 - 125
Hexachlorobutadiene	0.0500	0.0482		mg/Kg		96	60 - 135
Isopropylbenzene	0.0500	0.0469		mg/Kg		94	75 - 130
m,p-Xylene	0.0500	0.0470		mg/Kg		94	70 - 125
Methylene Chloride	0.0500	0.0569		mg/Kg		114	55 - 135
Naphthalene	0.0500	0.0510		mg/Kg		102	55 - 135
n-Butylbenzene	0.0500	0.0489		mg/Kg		98	70 - 130
N-Propylbenzene	0.0500	0.0485		mg/Kg		97	70 - 130
o-Xylene	0.0500	0.0476		mg/Kg		95	70 - 125
p-Isopropyltoluene	0.0500	0.0484		mg/Kg		97	75 - 125
sec-Butylbenzene	0.0500	0.0483		mg/Kg		97	70 - 125
Styrene	0.0500	0.0496		mg/Kg		99	75 - 130
tert-Butylbenzene	0.0500	0.0495		mg/Kg		99	70 - 125
Tetrachloroethene	0.0500	0.0488		mg/Kg		98	70 - 125
Toluene	0.0500	0.0469		mg/Kg		94	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0542		mg/Kg		108	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0570		mg/Kg		114	70 - 135
Trichloroethene	0.0500	0.0513		mg/Kg		103	70 - 125
Trichlorofluoromethane	0.0500	0.0556		mg/Kg		111	60 - 145
Vinyl chloride	0.0500	0.0575		mg/Kg		115	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*79 - 123*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*
Dibromofluoromethane (Surr)	*113*		*60 - 120*

Lab Sample ID: 440-102760-30 MS
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: SB3-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0495		mg/Kg		99	65 - 145
1,1,1-Trichloroethane	ND		0.0500	0.0512		mg/Kg		102	65 - 145
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0512		mg/Kg		102	40 - 160
1,1,2-Trichloroethane	ND		0.0500	0.0504		mg/Kg		101	65 - 140
1,1-Dichloroethane	ND		0.0500	0.0499		mg/Kg		100	65 - 135
1,1-Dichloroethene	ND		0.0500	0.0499		mg/Kg		100	65 - 135
1,1-Dichloropropene	ND		0.0500	0.0539		mg/Kg		108	65 - 135
1,2,3-Trichlorobenzene	ND		0.0500	0.0457		mg/Kg		91	45 - 145
1,2,3-Trichloropropane	ND		0.0500	0.0538		mg/Kg		108	50 - 150
1,2,4-Trichlorobenzene	ND		0.0500	0.0484		mg/Kg		97	50 - 140
1,2,4-Trimethylbenzene	ND		0.0500	0.0466		mg/Kg		93	65 - 140
1,2-Dibromo-3-Chloropropane	ND		0.0500	0.0499		mg/Kg		100	40 - 150

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102760-30 MS
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: SB3-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	ND		0.0500	0.0524		mg/Kg		105	65 - 140
1,2-Dichlorobenzene	ND		0.0500	0.0488		mg/Kg		98	70 - 130
1,2-Dichloroethane	ND		0.0500	0.0583		mg/Kg		117	60 - 150
1,2-Dichloropropane	ND		0.0500	0.0505		mg/Kg		101	65 - 130
1,3,5-Trimethylbenzene	ND		0.0500	0.0467		mg/Kg		93	65 - 135
1,3-Dichlorobenzene	ND		0.0500	0.0480		mg/Kg		96	70 - 130
1,3-Dichloropropane	ND		0.0500	0.0477		mg/Kg		95	65 - 140
1,4-Dichlorobenzene	ND		0.0500	0.0486		mg/Kg		97	70 - 130
2,2-Dichloropropane	ND		0.0500	0.0529		mg/Kg		106	65 - 150
2-Chlorotoluene	ND		0.0500	0.0470		mg/Kg		94	60 - 135
4-Chlorotoluene	ND		0.0500	0.0471		mg/Kg		94	65 - 135
Benzene	ND		0.0500	0.0487		mg/Kg		97	65 - 130
Bromobenzene	ND		0.0500	0.0499		mg/Kg		100	65 - 140
Bromochloromethane	ND		0.0500	0.0532		mg/Kg		106	65 - 145
Bromodichloromethane	ND		0.0500	0.0517		mg/Kg		103	65 - 145
Bromoform	ND		0.0500	0.0469		mg/Kg		94	50 - 145
Bromomethane	ND		0.0500	0.0506		mg/Kg		101	60 - 155
Carbon tetrachloride	ND		0.0500	0.0496		mg/Kg		99	60 - 145
Chlorobenzene	ND		0.0500	0.0469		mg/Kg		94	70 - 130
Chloroethane	ND		0.0500	0.0514		mg/Kg		103	60 - 150
Chloroform	ND		0.0500	0.0510		mg/Kg		102	65 - 135
Chloromethane	ND		0.0500	0.0516		mg/Kg		103	40 - 145
cis-1,2-Dichloroethene	ND		0.0500	0.0514		mg/Kg		103	65 - 135
cis-1,3-Dichloropropene	ND		0.0500	0.0503		mg/Kg		101	70 - 135
Dibromochloromethane	ND		0.0500	0.0509		mg/Kg		102	60 - 145
Dibromomethane	ND		0.0500	0.0530		mg/Kg		106	65 - 140
Dichlorodifluoromethane	ND		0.0500	0.0484		mg/Kg		97	30 - 160
Ethylbenzene	ND		0.0500	0.0454		mg/Kg		91	70 - 135
Hexachlorobutadiene	ND		0.0500	0.0412		mg/Kg		82	50 - 145
Isopropylbenzene	ND		0.0500	0.0453		mg/Kg		91	70 - 145
m,p-Xylene	ND		0.0500	0.0466		mg/Kg		93	70 - 130
Methylene Chloride	0.040		0.0500	0.107		mg/Kg		134	55 - 145
Naphthalene	ND		0.0500	0.0462		mg/Kg		92	40 - 150
n-Butylbenzene	ND		0.0500	0.0471		mg/Kg		94	55 - 145
N-Propylbenzene	ND		0.0500	0.0463		mg/Kg		93	65 - 140
o-Xylene	ND		0.0500	0.0464		mg/Kg		93	65 - 130
p-Isopropyltoluene	ND		0.0500	0.0465		mg/Kg		93	60 - 140
sec-Butylbenzene	ND		0.0500	0.0459		mg/Kg		92	60 - 135
Styrene	ND		0.0500	0.0481		mg/Kg		96	70 - 140
tert-Butylbenzene	ND		0.0500	0.0474		mg/Kg		95	60 - 140
Tetrachloroethene	ND		0.0500	0.0465		mg/Kg		93	65 - 135
Toluene	ND		0.0500	0.0458		mg/Kg		92	70 - 130
trans-1,2-Dichloroethene	ND		0.0500	0.0518		mg/Kg		104	70 - 135
trans-1,3-Dichloropropene	ND		0.0500	0.0531		mg/Kg		106	60 - 145
Trichloroethene	ND		0.0500	0.0508		mg/Kg		102	65 - 140
Trichlorofluoromethane	ND		0.0500	0.0492		mg/Kg		98	55 - 155
Vinyl chloride	ND	*	0.0500	0.0519		mg/Kg		104	55 - 140

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102760-30 MS
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: SB3-20
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*105*		*79 - 123*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Dibromofluoromethane (Surr)	*108*		*60 - 120*

Lab Sample ID: 440-102760-30 MSD
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: SB3-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		0.0495	0.0518		mg/Kg		105	65 - 145	5	20
1,1,1-Trichloroethane	ND		0.0495	0.0528		mg/Kg		107	65 - 145	3	20
1,1,2,2-Tetrachloroethane	ND		0.0495	0.0499		mg/Kg		101	40 - 160	2	30
1,1,2-Trichloroethane	ND		0.0495	0.0514		mg/Kg		104	65 - 140	2	30
1,1-Dichloroethane	ND		0.0495	0.0505		mg/Kg		102	65 - 135	1	25
1,1-Dichloroethene	ND		0.0495	0.0507		mg/Kg		102	65 - 135	2	25
1,1-Dichloropropene	ND		0.0495	0.0550		mg/Kg		111	65 - 135	2	20
1,2,3-Trichlorobenzene	ND		0.0495	0.0478		mg/Kg		97	45 - 145	4	30
1,2,3-Trichloropropane	ND		0.0495	0.0533		mg/Kg		108	50 - 150	1	30
1,2,4-Trichlorobenzene	ND		0.0495	0.0496		mg/Kg		100	50 - 140	3	30
1,2,4-Trimethylbenzene	ND		0.0495	0.0472		mg/Kg		95	65 - 140	1	25
1,2-Dibromo-3-Chloropropane	ND		0.0495	0.0508		mg/Kg		103	40 - 150	2	30
1,2-Dibromoethane (EDB)	ND		0.0495	0.0542		mg/Kg		109	65 - 140	3	25
1,2-Dichlorobenzene	ND		0.0495	0.0493		mg/Kg		100	70 - 130	1	25
1,2-Dichloroethane	ND		0.0495	0.0537		mg/Kg		108	60 - 150	8	25
1,2-Dichloropropane	ND		0.0495	0.0513		mg/Kg		104	65 - 130	2	20
1,3,5-Trimethylbenzene	ND		0.0495	0.0474		mg/Kg		96	65 - 135	1	25
1,3-Dichlorobenzene	ND		0.0495	0.0491		mg/Kg		99	70 - 130	2	25
1,3-Dichloropropane	ND		0.0495	0.0498		mg/Kg		101	65 - 140	4	25
1,4-Dichlorobenzene	ND		0.0495	0.0497		mg/Kg		100	70 - 130	2	25
2,2-Dichloropropane	ND		0.0495	0.0515		mg/Kg		104	65 - 150	3	25
2-Chlorotoluene	ND		0.0495	0.0473		mg/Kg		95	60 - 135	1	25
4-Chlorotoluene	ND		0.0495	0.0476		mg/Kg		96	65 - 135	1	25
Benzene	ND		0.0495	0.0498		mg/Kg		101	65 - 130	2	20
Bromobenzene	ND		0.0495	0.0508		mg/Kg		103	65 - 140	2	25
Bromochloromethane	ND		0.0495	0.0541		mg/Kg		109	65 - 145	2	25
Bromodichloromethane	ND		0.0495	0.0534		mg/Kg		108	65 - 145	3	20
Bromoform	ND		0.0495	0.0488		mg/Kg		99	50 - 145	4	30
Bromomethane	ND		0.0495	0.0510		mg/Kg		103	60 - 155	1	25
Carbon tetrachloride	ND		0.0495	0.0518		mg/Kg		105	60 - 145	4	25
Chlorobenzene	ND		0.0495	0.0477		mg/Kg		96	70 - 130	2	25
Chloroethane	ND		0.0495	0.0505		mg/Kg		102	60 - 150	2	25
Chloroform	ND		0.0495	0.0524		mg/Kg		106	65 - 135	3	20
Chloromethane	ND		0.0495	0.0508		mg/Kg		103	40 - 145	2	25
cis-1,2-Dichloroethene	ND		0.0495	0.0520		mg/Kg		105	65 - 135	1	25
cis-1,3-Dichloropropene	ND		0.0495	0.0522		mg/Kg		105	70 - 135	4	25
Dibromochloromethane	ND		0.0495	0.0521		mg/Kg		105	60 - 145	2	25
Dibromomethane	ND		0.0495	0.0537		mg/Kg		108	65 - 140	1	25
Dichlorodifluoromethane	ND		0.0495	0.0485		mg/Kg		98	30 - 160	0	35

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102760-30 MSD
Matrix: Solid
Analysis Batch: 239764

Client Sample ID: SB3-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND		0.0495	0.0460		mg/Kg		93	70 - 135	1	25
Hexachlorobutadiene	ND		0.0495	0.0430		mg/Kg		87	50 - 145	4	35
Isopropylbenzene	ND		0.0495	0.0466		mg/Kg		94	70 - 145	3	25
m,p-Xylene	ND		0.0495	0.0473		mg/Kg		96	70 - 130	1	25
Methylene Chloride	0.040		0.0495	0.0881		mg/Kg		98	55 - 145	19	25
Naphthalene	ND		0.0495	0.0475		mg/Kg		96	40 - 150	3	40
n-Butylbenzene	ND		0.0495	0.0472		mg/Kg		95	55 - 145	0	30
N-Propylbenzene	ND		0.0495	0.0469		mg/Kg		95	65 - 140	1	25
o-Xylene	ND		0.0495	0.0473		mg/Kg		96	65 - 130	2	25
p-Isopropyltoluene	ND		0.0495	0.0469		mg/Kg		95	60 - 140	1	25
sec-Butylbenzene	ND		0.0495	0.0461		mg/Kg		93	60 - 135	1	25
Styrene	ND		0.0495	0.0495		mg/Kg		100	70 - 140	3	25
tert-Butylbenzene	ND		0.0495	0.0480		mg/Kg		97	60 - 140	1	25
Tetrachloroethene	ND		0.0495	0.0488		mg/Kg		99	65 - 135	5	25
Toluene	ND		0.0495	0.0472		mg/Kg		95	70 - 130	3	20
trans-1,2-Dichloroethene	ND		0.0495	0.0528		mg/Kg		107	70 - 135	2	25
trans-1,3-Dichloropropene	ND		0.0495	0.0539		mg/Kg		109	60 - 145	1	25
Trichloroethene	ND		0.0495	0.0514		mg/Kg		104	65 - 140	1	25
Trichlorofluoromethane	ND		0.0495	0.0506		mg/Kg		102	55 - 155	3	25
Vinyl chloride	ND	*	0.0495	0.0526		mg/Kg		106	55 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*79 - 123*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*108*		*60 - 120*

Lab Sample ID: MB 440-240034/6
Matrix: Solid
Analysis Batch: 240034

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.020	0.0050	mg/Kg			03/03/15 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*79 - 123*		*03/03/15 10:24*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*		*03/03/15 10:24*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 120*		*03/03/15 10:24*	*1*

Lab Sample ID: LCS 440-240034/7
Matrix: Solid
Analysis Batch: 240034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			0.0500	0.0538		mg/Kg		108	55 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*111*		*79 - 123*

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-240034/7
Matrix: Solid
Analysis Batch: 240034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		79 - 120
Dibromofluoromethane (Surr)	110		60 - 120

Lab Sample ID: 440-103014-A-1 MS
Matrix: Solid
Analysis Batch: 240034

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	ND		0.0500	0.0562		mg/Kg		112	55 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	103		79 - 123
4-Bromofluorobenzene (Surr)	108		79 - 120
Dibromofluoromethane (Surr)	111		60 - 120

Lab Sample ID: 440-103014-A-1 MSD
Matrix: Solid
Analysis Batch: 240034

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		0.0499	0.0449		mg/Kg		90	55 - 145	22	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	106		79 - 123
4-Bromofluorobenzene (Surr)	107		79 - 120
Dibromofluoromethane (Surr)	111		60 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-239632/1-A
Matrix: Solid
Analysis Batch: 240777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
1,2-Dichlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
1,3-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
1,4-Dichlorobenzene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2,4,5-Trichlorophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2,4,6-Trichlorophenol	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2,4-Dichlorophenol	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2,4-Dimethylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2,4-Dinitrophenol	ND		0.66	0.33	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2,4-Dinitrotoluene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2,6-Dinitrotoluene	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/05/15 20:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-239632/1-A
Matrix: Solid
Analysis Batch: 240777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2-Chlorophenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2-Methylnaphthalene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2-Methylphenol	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2-Nitroaniline	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
2-Nitrophenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
3,3'-Dichlorobenzidine	ND		0.83	0.15	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
3-Methylphenol + 4-Methylphenol	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
3-Nitroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
4,6-Dinitro-2-methylphenol	ND		0.42	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
4-Bromophenyl phenyl ether	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
4-Chloro-3-methylphenol	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
4-Chloroaniline	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
4-Chlorophenyl phenyl ether	ND		0.33	0.085	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
4-Nitroaniline	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
4-Nitrophenol	ND		0.83	0.14	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Acenaphthene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Acenaphthylene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Aniline	ND		0.42	0.085	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Anthracene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzidine	ND		1.3	0.66	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzo[a]anthracene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzo[a]pyrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzo[b]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzo[g,h,i]perylene	ND		0.33	0.11	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzo[k]fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzoic acid	0.458	J	0.83	0.34	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Benzyl alcohol	ND		0.33	0.15	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
bis (2-chloroisopropyl) ether	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Bis(2-chloroethoxy)methane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Bis(2-chloroethyl)ether	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Bis(2-ethylhexyl) phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Butyl benzyl phthalate	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Chrysene	ND		0.33	0.075	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Dibenz(a,h)anthracene	ND		0.42	0.10	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Dibenzofuran	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Diethyl phthalate	ND		0.33	0.095	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Dimethyl phthalate	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Di-n-butyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Di-n-octyl phthalate	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Fluoranthene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Fluorene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Hexachlorobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Hexachlorobutadiene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Hexachlorocyclopentadiene	ND		0.83	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Hexachloroethane	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.33	0.13	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Isophorone	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-239632/1-A
Matrix: Solid
Analysis Batch: 240777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Nitrobenzene	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
N-Nitrosodimethylamine	ND		0.33	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
N-Nitrosodi-n-propylamine	ND		0.25	0.070	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
N-Nitrosodiphenylamine	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Pentachlorophenol	ND		0.83	0.34	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Phenanthrene	ND		0.33	0.067	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Phenol	ND		0.33	0.090	mg/Kg		02/28/15 12:20	03/05/15 20:46	1
Pyrene	ND		0.33	0.080	mg/Kg		02/28/15 12:20	03/05/15 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*35 - 120*	*02/28/15 12:20*	*03/05/15 20:46*	*1*
2-Fluorophenol (Surr)	*73*		*25 - 120*	*02/28/15 12:20*	*03/05/15 20:46*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*35 - 125*	*02/28/15 12:20*	*03/05/15 20:46*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 120*	*02/28/15 12:20*	*03/05/15 20:46*	*1*
Terphenyl-d14 (Surr)	*73*		*40 - 135*	*02/28/15 12:20*	*03/05/15 20:46*	*1*
Phenol-d6 (Surr)	*79*		*35 - 120*	*02/28/15 12:20*	*03/05/15 20:46*	*1*

Lab Sample ID: LCS 440-239632/2-A
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	3.33	2.50		mg/Kg		75	56 - 94
1,2-Dichlorobenzene	3.33	2.39		mg/Kg		72	54 - 93
1,2-Diphenylhydrazine(as Azobenzene)	3.33	2.61		mg/Kg		78	64 - 110
1,3-Dichlorobenzene	3.33	2.32		mg/Kg		69	53 - 89
1,4-Dichlorobenzene	3.33	2.31		mg/Kg		69	54 - 90
2,4,5-Trichlorophenol	3.33	2.64		mg/Kg		79	64 - 110
2,4,6-Trichlorophenol	3.33	2.86		mg/Kg		86	65 - 106
2,4-Dichlorophenol	3.33	2.63		mg/Kg		79	64 - 104
2,4-Dimethylphenol	3.33	2.65		mg/Kg		80	57 - 97
2,4-Dinitrophenol	3.33	6.30	*	mg/Kg		189	44 - 124
2,4-Dinitrotoluene	3.33	2.92		mg/Kg		87	67 - 113
2,6-Dinitrotoluene	3.33	2.89		mg/Kg		87	67 - 112
2-Chloronaphthalene	3.33	2.70		mg/Kg		81	65 - 101
2-Chlorophenol	3.33	2.72		mg/Kg		81	61 - 103
2-Methylnaphthalene	3.33	2.49		mg/Kg		75	56 - 98
2-Methylphenol	3.33	2.59		mg/Kg		78	57 - 108
2-Nitroaniline	3.33	2.67		mg/Kg		80	62 - 109
2-Nitrophenol	3.33	2.77		mg/Kg		83	58 - 102
3,3'-Dichlorobenzidine	3.33	3.18		mg/Kg		95	44 - 101
3-Methylphenol + 4-Methylphenol	3.33	2.33		mg/Kg		70	56 - 110
3-Nitroaniline	3.33	2.34		mg/Kg		70	43 - 106
4,6-Dinitro-2-methylphenol	3.33	6.35	*	mg/Kg		190	60 - 122
4-Bromophenyl phenyl ether	3.33	2.88		mg/Kg		86	61 - 101
4-Chloro-3-methylphenol	3.33	2.72		mg/Kg		82	63 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-239632/2-A
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	3.33	1.88		mg/Kg		56	29 - 98
4-Chlorophenyl phenyl ether	3.33	2.67		mg/Kg		80	60 - 116
4-Nitroaniline	3.33	2.50		mg/Kg		75	58 - 109
4-Nitrophenol	3.33	4.85	*	mg/Kg		146	58 - 118
Acenaphthene	3.33	2.51		mg/Kg		75	61 - 104
Acenaphthylene	3.33	2.73		mg/Kg		82	60 - 112
Aniline	3.33	2.30		mg/Kg		69	37 - 99
Anthracene	3.33	2.76		mg/Kg		83	69 - 115
Benzidine	3.33	1.49		mg/Kg		45	5 - 81
Benzo[a]anthracene	3.33	3.00		mg/Kg		90	68 - 109
Benzo[a]pyrene	3.33	3.08		mg/Kg		92	69 - 111
Benzo[b]fluoranthene	3.33	2.81		mg/Kg		84	61 - 106
Benzo[g,h,i]perylene	3.33	3.75		mg/Kg		112	60 - 115
Benzo[k]fluoranthene	3.33	3.23		mg/Kg		97	69 - 118
Benzoic acid	3.33	2.95		mg/Kg		88	38 - 115
Benzyl alcohol	3.33	2.84		mg/Kg		85	49 - 109
bis (2-chloroisopropyl) ether	3.33	2.49		mg/Kg		75	50 - 102
Bis(2-chloroethoxy)methane	3.33	2.52		mg/Kg		76	62 - 101
Bis(2-chloroethyl)ether	3.33	2.74		mg/Kg		82	55 - 99
Bis(2-ethylhexyl) phthalate	3.33	3.02		mg/Kg		91	61 - 117
Butyl benzyl phthalate	3.33	2.93		mg/Kg		88	61 - 109
Chrysene	3.33	2.99		mg/Kg		90	68 - 113
Dibenz(a,h)anthracene	3.33	3.30		mg/Kg		99	62 - 115
Dibenzofuran	3.33	2.58		mg/Kg		77	62 - 108
Diethyl phthalate	3.33	2.59		mg/Kg		78	65 - 116
Dimethyl phthalate	3.33	2.66		mg/Kg		80	67 - 106
Di-n-butyl phthalate	3.33	2.81		mg/Kg		84	71 - 119
Di-n-octyl phthalate	3.33	3.09		mg/Kg		93	68 - 124
Fluoranthene	3.33	2.82		mg/Kg		85	65 - 115
Fluorene	3.33	2.54		mg/Kg		76	61 - 115
Hexachlorobenzene	3.33	2.93		mg/Kg		88	61 - 99
Hexachlorobutadiene	3.33	2.57		mg/Kg		77	54 - 93
Hexachlorocyclopentadiene	3.33	2.08		mg/Kg		62	35 - 105
Hexachloroethane	3.33	2.41		mg/Kg		72	54 - 91
Indeno[1,2,3-cd]pyrene	3.33	3.32		mg/Kg		99	53 - 122
Isophorone	3.33	2.62		mg/Kg		79	58 - 98
Naphthalene	3.33	2.50		mg/Kg		75	58 - 96
Nitrobenzene	3.33	2.45		mg/Kg		73	58 - 96
N-Nitrosodimethylamine	3.33	2.32		mg/Kg		70	48 - 94
N-Nitrosodi-n-propylamine	3.33	2.51		mg/Kg		75	54 - 104
N-Nitrosodiphenylamine	3.33	2.92		mg/Kg		88	64 - 101
Pentachlorophenol	3.33	5.65	*	mg/Kg		169	57 - 119
Phenanthrene	3.33	2.71		mg/Kg		81	67 - 118
Phenol	3.33	2.83		mg/Kg		85	60 - 108
Pyrene	3.33	2.89		mg/Kg		87	65 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*35 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-239632/2-A
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239632

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	*82*		*25 - 120*
2,4,6-Tribromophenol (Surr)	*105*		*35 - 125*
Nitrobenzene-d5 (Surr)	*81*		*30 - 120*
Terphenyl-d14 (Surr)	*90*		*40 - 135*
Phenol-d6 (Surr)	*85*		*35 - 120*

Lab Sample ID: 440-102980-A-30-J MS
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		3.29	2.26		mg/Kg		69	40 - 120
1,2-Dichlorobenzene	ND		3.29	2.18		mg/Kg		66	40 - 120
1,2-Diphenylhydrazine(as Azobenzene)	ND		3.29	2.45		mg/Kg		74	50 - 125
1,3-Dichlorobenzene	ND		3.29	2.12		mg/Kg		64	35 - 120
1,4-Dichlorobenzene	ND		3.29	2.16		mg/Kg		66	35 - 120
2,4,5-Trichlorophenol	ND		3.29	2.57		mg/Kg		78	45 - 120
2,4,6-Trichlorophenol	ND		3.29	2.68		mg/Kg		82	45 - 120
2,4-Dichlorophenol	ND		3.29	2.35		mg/Kg		72	45 - 120
2,4-Dimethylphenol	ND		3.29	1.95		mg/Kg		59	30 - 120
2,4-Dinitrophenol	ND	*	3.29	5.30		mg/Kg		161	20 - 120
2,4-Dinitrotoluene	ND		3.29	2.71		mg/Kg		82	50 - 125
2,6-Dinitrotoluene	ND		3.29	2.74		mg/Kg		83	50 - 125
2-Chloronaphthalene	ND		3.29	2.58		mg/Kg		79	45 - 120
2-Chlorophenol	ND		3.29	2.47		mg/Kg		75	40 - 120
2-Methylnaphthalene	ND		3.29	2.29		mg/Kg		69	40 - 120
2-Methylphenol	ND		3.29	2.21		mg/Kg		67	40 - 120
2-Nitroaniline	ND		3.29	2.51		mg/Kg		76	45 - 120
2-Nitrophenol	ND		3.29	2.54		mg/Kg		77	40 - 120
3,3'-Dichlorobenzidine	ND		3.29	2.36		mg/Kg		72	20 - 130
3-Methylphenol + 4-Methylphenol	ND		3.29	2.00		mg/Kg		61	50 - 120
3-Nitroaniline	ND		3.29	2.16		mg/Kg		66	30 - 120
4,6-Dinitro-2-methylphenol	ND	*	3.29	5.89		mg/Kg		179	35 - 120
4-Bromophenyl phenyl ether	ND		3.29	2.82		mg/Kg		86	45 - 120
4-Chloro-3-methylphenol	ND		3.29	2.45		mg/Kg		74	50 - 125
4-Chloroaniline	ND		3.29	1.59		mg/Kg		48	20 - 120
4-Chlorophenyl phenyl ether	ND		3.29	2.51		mg/Kg		76	50 - 120
4-Nitroaniline	ND		3.29	2.11		mg/Kg		64	40 - 125
4-Nitrophenol	ND	*	3.29	4.46		mg/Kg		136	35 - 125
Acenaphthene	ND		3.29	2.37		mg/Kg		72	45 - 120
Acenaphthylene	ND		3.29	2.55		mg/Kg		78	45 - 120
Aniline	ND		3.29	2.00		mg/Kg		61	25 - 120
Anthracene	ND		3.29	2.61		mg/Kg		79	55 - 120
Benzidine	ND		3.29	ND		mg/Kg		0	20 - 120
Benzo[a]anthracene	ND		3.29	2.86		mg/Kg		87	50 - 120
Benzo[a]pyrene	ND		3.29	2.89		mg/Kg		88	45 - 125
Benzo[b]fluoranthene	ND		3.29	2.79		mg/Kg		85	45 - 125

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102980-A-30-J MS
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	ND		3.29	3.78		mg/Kg		115	25 - 130
Benzo[k]fluoranthene	ND		3.29	3.16		mg/Kg		96	45 - 125
Benzoic acid	ND		3.29	2.63		mg/Kg		80	20 - 120
Benzyl alcohol	ND		3.29	2.63		mg/Kg		80	20 - 120
bis (2-chloroisopropyl) ether	ND		3.29	2.27		mg/Kg		69	40 - 120
Bis(2-chloroethoxy)methane	ND		3.29	2.34		mg/Kg		71	45 - 120
Bis(2-chloroethyl)ether	ND		3.29	2.51		mg/Kg		76	35 - 110
Bis(2-ethylhexyl) phthalate	ND		3.29	2.91		mg/Kg		88	45 - 130
Butyl benzyl phthalate	ND		3.29	2.83		mg/Kg		86	45 - 125
Chrysene	ND		3.29	2.87		mg/Kg		87	55 - 120
Dibenz(a,h)anthracene	ND		3.29	3.25		mg/Kg		99	25 - 135
Dibenzofuran	ND		3.29	2.43		mg/Kg		74	50 - 120
Diethyl phthalate	ND		3.29	2.43		mg/Kg		74	50 - 125
Dimethyl phthalate	ND		3.29	2.51		mg/Kg		76	45 - 125
Di-n-butyl phthalate	ND		3.29	2.64		mg/Kg		80	50 - 125
Di-n-octyl phthalate	ND		3.29	2.91		mg/Kg		89	50 - 135
Fluoranthene	ND		3.29	2.67		mg/Kg		81	45 - 120
Fluorene	ND		3.29	2.38		mg/Kg		72	50 - 120
Hexachlorobenzene	ND		3.29	2.88		mg/Kg		88	50 - 120
Hexachlorobutadiene	ND		3.29	2.30		mg/Kg		70	40 - 120
Hexachlorocyclopentadiene	ND		3.29	1.98		mg/Kg		60	20 - 125
Hexachloroethane	ND		3.29	2.17		mg/Kg		66	35 - 120
Indeno[1,2,3-cd]pyrene	ND		3.29	3.28		mg/Kg		100	20 - 130
Isophorone	ND		3.29	2.41		mg/Kg		73	40 - 120
Naphthalene	ND		3.29	2.29		mg/Kg		70	40 - 120
Nitrobenzene	ND		3.29	2.27		mg/Kg		69	40 - 120
N-Nitrosodimethylamine	ND		3.29	2.13		mg/Kg		65	25 - 125
N-Nitrosodi-n-propylamine	ND		3.29	2.34		mg/Kg		71	35 - 120
N-Nitrosodiphenylamine	ND		3.29	2.74		mg/Kg		83	45 - 125
Pentachlorophenol	ND	*	3.29	5.31		mg/Kg		161	30 - 120
Phenanthrene	ND		3.29	2.60		mg/Kg		79	50 - 120
Phenol	ND		3.29	2.61		mg/Kg		79	40 - 120
Pyrene	ND		3.29	2.77		mg/Kg		84	40 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*35 - 120*
2-Fluorophenol (Surr)	*74*		*25 - 120*
2,4,6-Tribromophenol (Surr)	*98*		*35 - 125*
Nitrobenzene-d5 (Surr)	*75*		*30 - 120*
Terphenyl-d14 (Surr)	*85*		*40 - 135*
Phenol-d6 (Surr)	*78*		*35 - 120*

Lab Sample ID: 440-102980-A-30-K MSD
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		3.30	2.40		mg/Kg		73	40 - 120	6	25

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102980-A-30-K MSD
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		3.30	2.28		mg/Kg		69	40 - 120	5	25
1,2-Diphenylhydrazine(as Azobenzene)	ND		3.30	2.50		mg/Kg		76	50 - 125	2	25
1,3-Dichlorobenzene	ND		3.30	2.22		mg/Kg		67	35 - 120	5	25
1,4-Dichlorobenzene	ND		3.30	2.23		mg/Kg		68	35 - 120	3	25
2,4,5-Trichlorophenol	ND		3.30	2.66		mg/Kg		80	45 - 120	3	20
2,4,6-Trichlorophenol	ND		3.30	2.86		mg/Kg		87	45 - 120	6	25
2,4-Dichlorophenol	ND		3.30	2.52		mg/Kg		76	45 - 120	7	25
2,4-Dimethylphenol	ND		3.30	2.05		mg/Kg		62	30 - 120	5	25
2,4-Dinitrophenol	ND	*	3.30	5.53		mg/Kg		168	20 - 120	4	25
2,4-Dinitrotoluene	ND		3.30	2.77		mg/Kg		84	50 - 125	2	25
2,6-Dinitrotoluene	ND		3.30	2.81		mg/Kg		85	50 - 125	3	20
2-Chloronaphthalene	ND		3.30	2.72		mg/Kg		82	45 - 120	5	20
2-Chlorophenol	ND		3.30	2.52		mg/Kg		76	40 - 120	2	20
2-Methylnaphthalene	ND		3.30	2.38		mg/Kg		72	40 - 120	4	20
2-Methylphenol	ND		3.30	2.25		mg/Kg		68	40 - 120	2	25
2-Nitroaniline	ND		3.30	2.64		mg/Kg		80	45 - 120	5	25
2-Nitrophenol	ND		3.30	2.67		mg/Kg		81	40 - 120	5	25
3,3'-Dichlorobenzidine	ND		3.30	2.56		mg/Kg		78	20 - 130	8	25
3-Methylphenol + 4-Methylphenol	ND		3.30	2.04		mg/Kg		62	50 - 120	2	25
3-Nitroaniline	ND		3.30	2.25		mg/Kg		68	30 - 120	4	25
4,6-Dinitro-2-methylphenol	ND	*	3.30	6.29		mg/Kg		191	35 - 120	7	25
4-Bromophenyl phenyl ether	ND		3.30	2.96		mg/Kg		90	45 - 120	5	20
4-Chloro-3-methylphenol	ND		3.30	2.53		mg/Kg		77	50 - 125	3	25
4-Chloroaniline	ND		3.30	1.77		mg/Kg		54	20 - 120	11	30
4-Chlorophenyl phenyl ether	ND		3.30	2.58		mg/Kg		78	50 - 120	3	25
4-Nitroaniline	ND		3.30	2.18		mg/Kg		66	40 - 125	3	30
4-Nitrophenol	ND	*	3.30	4.53		mg/Kg		137	35 - 125	2	30
Acenaphthene	ND		3.30	2.47		mg/Kg		75	45 - 120	4	25
Acenaphthylene	ND		3.30	2.65		mg/Kg		80	45 - 120	4	20
Aniline	ND		3.30	2.09		mg/Kg		63	25 - 120	5	30
Anthracene	ND		3.30	2.67		mg/Kg		81	55 - 120	2	25
Benzidine	ND		3.30	ND		mg/Kg		0	20 - 120	NC	30
Benzo[a]anthracene	ND		3.30	2.98		mg/Kg		90	50 - 120	4	25
Benzo[a]pyrene	ND		3.30	3.08		mg/Kg		93	45 - 125	6	25
Benzo[b]fluoranthene	ND		3.30	2.97		mg/Kg		90	45 - 125	6	30
Benzo[g,h,i]perylene	ND		3.30	4.03		mg/Kg		122	25 - 130	6	30
Benzo[k]fluoranthene	ND		3.30	3.32		mg/Kg		101	45 - 125	5	30
Benzoic acid	ND		3.30	2.64		mg/Kg		80	20 - 120	0	30
Benzyl alcohol	ND		3.30	2.60		mg/Kg		79	20 - 120	1	30
bis (2-chloroisopropyl) ether	ND		3.30	2.33		mg/Kg		70	40 - 120	2	25
Bis(2-chloroethoxy)methane	ND		3.30	2.41		mg/Kg		73	45 - 120	3	25
Bis(2-chloroethyl)ether	ND		3.30	2.59		mg/Kg		78	35 - 110	3	25
Bis(2-ethylhexyl) phthalate	ND		3.30	2.99		mg/Kg		91	45 - 130	3	25
Butyl benzyl phthalate	ND		3.30	2.94		mg/Kg		89	45 - 125	4	25
Chrysene	ND		3.30	2.97		mg/Kg		90	55 - 120	3	25
Dibenz(a,h)anthracene	ND		3.30	3.49		mg/Kg		106	25 - 135	7	30
Dibenzofuran	ND		3.30	2.49		mg/Kg		76	50 - 120	3	25

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102980-A-30-K MSD
Matrix: Solid
Analysis Batch: 239916

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diethyl phthalate	ND		3.30	2.47		mg/Kg		75	50 - 125	1	25
Dimethyl phthalate	ND		3.30	2.62		mg/Kg		79	45 - 125	4	25
Di-n-butyl phthalate	ND		3.30	2.75		mg/Kg		83	50 - 125	4	25
Di-n-octyl phthalate	ND		3.30	3.01		mg/Kg		91	50 - 135	3	25
Fluoranthene	ND		3.30	2.78		mg/Kg		84	45 - 120	4	25
Fluorene	ND		3.30	2.46		mg/Kg		74	50 - 120	3	25
Hexachlorobenzene	ND		3.30	3.03		mg/Kg		92	50 - 120	5	25
Hexachlorobutadiene	ND		3.30	2.49		mg/Kg		75	40 - 120	8	25
Hexachlorocyclopentadiene	ND		3.30	2.12		mg/Kg		64	20 - 125	7	30
Hexachloroethane	ND		3.30	2.28		mg/Kg		69	35 - 120	5	30
Indeno[1,2,3-cd]pyrene	ND		3.30	3.95		mg/Kg		120	20 - 130	19	30
Isophorone	ND		3.30	2.54		mg/Kg		77	40 - 120	5	25
Naphthalene	ND		3.30	2.38		mg/Kg		72	40 - 120	4	25
Nitrobenzene	ND		3.30	2.39		mg/Kg		72	40 - 120	5	25
N-Nitrosodimethylamine	ND		3.30	2.29		mg/Kg		69	25 - 125	7	25
N-Nitrosodi-n-propylamine	ND		3.30	2.39		mg/Kg		72	35 - 120	2	25
N-Nitrosodiphenylamine	ND		3.30	2.89		mg/Kg		88	45 - 125	5	25
Pentachlorophenol	ND	*	3.30	5.62		mg/Kg		170	30 - 120	6	25
Phenanthrene	ND		3.30	2.68		mg/Kg		81	50 - 120	3	25
Phenol	ND		3.30	2.66		mg/Kg		80	40 - 120	2	25
Pyrene	ND		3.30	2.87		mg/Kg		87	40 - 125	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*35 - 120*
2-Fluorophenol (Surr)	*76*		*25 - 120*
2,4,6-Tribromophenol (Surr)	*102*		*35 - 125*
Nitrobenzene-d5 (Surr)	*78*		*30 - 120*
Terphenyl-d14 (Surr)	*88*		*40 - 135*
Phenol-d6 (Surr)	*79*		*35 - 120*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-239107/6
Matrix: Solid
Analysis Batch: 239107

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/26/15 15:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*65 - 140*		*02/26/15 15:36*	*1*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 440-239107/4
Matrix: Solid
Analysis Batch: 239107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1.60	1.62		mg/Kg		101	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*65 - 140*

Lab Sample ID: LCSD 440-239107/5
Matrix: Solid
Analysis Batch: 239107

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1.60	1.75		mg/Kg		109	70 - 135	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*

Lab Sample ID: 440-102760-2 MS
Matrix: Solid
Analysis Batch: 239107

Client Sample ID: SB8-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1.59	1.54		mg/Kg		97	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*65 - 140*

Lab Sample ID: 440-102760-2 MSD
Matrix: Solid
Analysis Batch: 239107

Client Sample ID: SB8-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1.59	1.60		mg/Kg		100	60 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*65 - 140*

Lab Sample ID: MB 440-239228/40
Matrix: Solid
Analysis Batch: 239228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		0.40	0.15	mg/Kg			02/27/15 05:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*65 - 140*		*02/27/15 05:14*	*1*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 440-239228/38
Matrix: Solid
Analysis Batch: 239228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1.60	1.59		mg/Kg		99	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*

Lab Sample ID: LCSD 440-239228/39
Matrix: Solid
Analysis Batch: 239228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1.60	1.61		mg/Kg		101	70 - 135	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*65 - 140*

Lab Sample ID: 440-102760-37 MS
Matrix: Solid
Analysis Batch: 239228

Client Sample ID: SB2-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1.60	1.25		mg/Kg		78	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*

Lab Sample ID: 440-102760-37 MSD
Matrix: Solid
Analysis Batch: 239228

Client Sample ID: SB2-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1.59	1.21		mg/Kg		76	60 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*68*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-239359/1-A
Matrix: Solid
Analysis Batch: 239425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 11:49	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		02/27/15 07:40	02/27/15 11:49	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-239359/1-A
Matrix: Solid
Analysis Batch: 239425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239359

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	90		40 - 140	02/27/15 07:40	02/27/15 11:49	1

Lab Sample ID: LCS 440-239359/2-A
Matrix: Solid
Analysis Batch: 239425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239359

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	57.1		mg/Kg		86	45 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	89		40 - 140

Lab Sample ID: 440-102960-A-1-B MS
Matrix: Solid
Analysis Batch: 239385

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	660		66.1	784	4	mg/Kg		182	40 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	145	X	40 - 140

Lab Sample ID: 440-102960-A-1-C MSD
Matrix: Solid
Analysis Batch: 239385

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239359

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	660		66.2	754	4	mg/Kg		136	40 - 120	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	117		40 - 140

Lab Sample ID: MB 440-239433/1-A
Matrix: Solid
Analysis Batch: 239384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 16:56	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		02/27/15 11:46	02/27/15 16:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	93		40 - 140	02/27/15 11:46	02/27/15 16:56	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-239433/2-A
Matrix: Solid
Analysis Batch: 239384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239433

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	61.2		mg/Kg		92	45 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*95*		*40 - 140*

Lab Sample ID: 440-102760-32 MS
Matrix: Solid
Analysis Batch: 239384

Client Sample ID: SB1-5
Prep Type: Total/NA
Prep Batch: 239433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	5.9		66.2	59.2		mg/Kg		81	40 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*91*		*40 - 140*

Lab Sample ID: 440-102760-32 MSD
Matrix: Solid
Analysis Batch: 239384

Client Sample ID: SB1-5
Prep Type: Total/NA
Prep Batch: 239433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	5.9		66.1	54.8		mg/Kg		74	40 - 120	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*89*		*40 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-240107/1-A
Matrix: Solid
Analysis Batch: 240118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
4,4'-DDE	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
4,4'-DDT	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Aldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
alpha-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
beta-BHC	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Chlordane (technical)	ND		0.050	0.010	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
delta-BHC	ND		0.010	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Dieldrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Endosulfan I	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Endosulfan II	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Endosulfan sulfate	ND		0.010	0.0020	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Endrin	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Endrin aldehyde	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Endrin ketone	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 17:29	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 440-240107/1-A
Matrix: Solid
Analysis Batch: 240118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Heptachlor	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Heptachlor epoxide	ND		0.0050	0.0020	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Methoxychlor	ND		0.0050	0.0015	mg/Kg		03/03/15 10:43	03/03/15 17:29	1
Toxaphene	ND		0.20	0.050	mg/Kg		03/03/15 10:43	03/03/15 17:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 115*	*03/03/15 10:43*	*03/03/15 17:29*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*	*03/03/15 10:43*	*03/03/15 17:29*	*1*

Lab Sample ID: LCS 440-240107/2-A
Matrix: Solid
Analysis Batch: 240118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 240107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0133	0.0131		mg/Kg		98	60 - 120
4,4'-DDE	0.0133	0.0125		mg/Kg		94	60 - 120
4,4'-DDT	0.0133	0.0137		mg/Kg		103	65 - 120
Aldrin	0.0133	0.0103		mg/Kg		77	50 - 115
alpha-BHC	0.0133	0.0112		mg/Kg		84	60 - 115
beta-BHC	0.0133	0.0120		mg/Kg		90	60 - 115
delta-BHC	0.0133	0.0120		mg/Kg		90	60 - 115
Dieldrin	0.0133	0.0124		mg/Kg		93	65 - 115
Endosulfan I	0.0133	0.0123		mg/Kg		92	40 - 120
Endosulfan II	0.0133	0.0129		mg/Kg		97	55 - 120
Endosulfan sulfate	0.0133	0.0128		mg/Kg		96	65 - 115
Endrin	0.0133	0.0135		mg/Kg		101	55 - 120
Endrin aldehyde	0.0133	0.0113		mg/Kg		85	55 - 115
Endrin ketone	0.0133	0.0133		mg/Kg		100	65 - 115
gamma-BHC (Lindane)	0.0133	0.0108		mg/Kg		81	55 - 115
Heptachlor	0.0133	0.0121		mg/Kg		91	55 - 115
Heptachlor epoxide	0.0133	0.0123		mg/Kg		92	55 - 115
Methoxychlor	0.0133	0.0142		mg/Kg		106	65 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*

Lab Sample ID: 440-102760-1 MS
Matrix: Solid
Analysis Batch: 240118

Client Sample ID: SB8-1
Prep Type: Total/NA
Prep Batch: 240107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.0132	0.0119		mg/Kg		90	40 - 130
4,4'-DDE	ND		0.0132	0.0119		mg/Kg		90	35 - 130
4,4'-DDT	ND		0.0132	0.0128		mg/Kg		97	35 - 130
Aldrin	ND		0.0132	0.0107		mg/Kg		81	40 - 115
alpha-BHC	ND		0.0132	0.0107		mg/Kg		81	40 - 115

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-102760-1 MS
Matrix: Solid
Analysis Batch: 240118

Client Sample ID: SB8-1
Prep Type: Total/NA
Prep Batch: 240107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND		0.0132	0.0116		mg/Kg		88	40 - 120
delta-BHC	ND		0.0132	0.0113		mg/Kg		85	45 - 120
Dieldrin	ND		0.0132	0.0117		mg/Kg		88	40 - 125
Endosulfan I	ND		0.0132	0.0115		mg/Kg		87	40 - 120
Endosulfan II	ND		0.0132	0.0118		mg/Kg		90	40 - 125
Endosulfan sulfate	ND		0.0132	0.0116		mg/Kg		88	45 - 120
Endrin	ND		0.0132	0.0129		mg/Kg		97	45 - 125
Endrin aldehyde	ND		0.0132	0.0103		mg/Kg		78	30 - 120
Endrin ketone	ND		0.0132	0.0124		mg/Kg		94	40 - 120
gamma-BHC (Lindane)	ND		0.0132	0.0105		mg/Kg		80	40 - 120
Heptachlor	ND		0.0132	0.0116		mg/Kg		88	40 - 115
Heptachlor epoxide	ND		0.0132	0.0117		mg/Kg		89	45 - 115
Methoxychlor	ND		0.0132	0.0131		mg/Kg		99	40 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*

Lab Sample ID: 440-102760-1 MSD
Matrix: Solid
Analysis Batch: 240118

Client Sample ID: SB8-1
Prep Type: Total/NA
Prep Batch: 240107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.0132	0.0121		mg/Kg		92	40 - 130	2	30
4,4'-DDE	ND		0.0132	0.0120		mg/Kg		91	35 - 130	1	30
4,4'-DDT	ND		0.0132	0.0129		mg/Kg		98	35 - 130	1	30
Aldrin	ND		0.0132	0.0107		mg/Kg		81	40 - 115	0	30
alpha-BHC	ND		0.0132	0.0108		mg/Kg		82	40 - 115	1	30
beta-BHC	ND		0.0132	0.0118		mg/Kg		90	40 - 120	2	30
delta-BHC	ND		0.0132	0.0115		mg/Kg		87	45 - 120	2	30
Dieldrin	ND		0.0132	0.0118		mg/Kg		90	40 - 125	1	30
Endosulfan I	ND		0.0132	0.0117		mg/Kg		89	40 - 120	1	30
Endosulfan II	ND		0.0132	0.0119		mg/Kg		90	40 - 125	1	30
Endosulfan sulfate	ND		0.0132	0.0118		mg/Kg		90	45 - 120	1	30
Endrin	ND		0.0132	0.0131		mg/Kg		99	45 - 125	2	30
Endrin aldehyde	ND		0.0132	0.00959		mg/Kg		73	30 - 120	7	30
Endrin ketone	ND		0.0132	0.0125		mg/Kg		95	40 - 120	0	30
gamma-BHC (Lindane)	ND		0.0132	0.0105		mg/Kg		80	40 - 120	0	30
Heptachlor	ND		0.0132	0.0117		mg/Kg		89	40 - 115	0	30
Heptachlor epoxide	ND		0.0132	0.0117		mg/Kg		89	45 - 115	0	30
Methoxychlor	ND		0.0132	0.0133		mg/Kg		101	40 - 135	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-239684/1-A
Matrix: Solid
Analysis Batch: 240111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 17:44	1
Aroclor 1221	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 17:44	1
Aroclor 1232	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 17:44	1
Aroclor 1242	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 17:44	1
Aroclor 1248	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 17:44	1
Aroclor 1254	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 17:44	1
Aroclor 1260	ND		0.050	0.017	mg/Kg		03/01/15 09:28	03/03/15 17:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*03/01/15 09:28*	*03/03/15 17:44*	*1*

Lab Sample ID: LCS 440-239684/2-A
Matrix: Solid
Analysis Batch: 240111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239684

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			0.267	0.284		mg/Kg		106	65 - 115		
Aroclor 1260			0.267	0.243		mg/Kg		91	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*

Lab Sample ID: 440-102980-B-30-C MS
Matrix: Solid
Analysis Batch: 240111

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		0.262	0.256		mg/Kg		98	50 - 120		
Aroclor 1260	ND		0.262	0.226		mg/Kg		86	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*

Lab Sample ID: 440-102980-B-30-D MSD
Matrix: Solid
Analysis Batch: 240111

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		0.265	0.263		mg/Kg		99	50 - 120	3	30
Aroclor 1260	ND		0.265	0.229		mg/Kg		86	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-239082/1-A ^5
Matrix: Solid
Analysis Batch: 239779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Arsenic	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Barium	ND		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Beryllium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Cadmium	ND		0.50	0.25	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Chromium	ND		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Cobalt	ND		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Copper	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Lead	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Molybdenum	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Nickel	ND		2.0	1.0	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Selenium	ND		3.0	1.5	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Silver	ND		1.5	0.75	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Thallium	ND		10	5.0	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Vanadium	ND		1.0	0.50	mg/Kg		02/26/15 11:30	03/01/15 16:49	5
Zinc	ND		5.0	2.5	mg/Kg		02/26/15 11:30	03/01/15 16:49	5

Lab Sample ID: LCS 440-239082/2-A ^5
Matrix: Solid
Analysis Batch: 239779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.3	56.7		mg/Kg		115	80 - 120
Arsenic	49.3	54.8		mg/Kg		111	80 - 120
Barium	49.3	56.2		mg/Kg		114	80 - 120
Beryllium	49.3	54.5		mg/Kg		111	80 - 120
Cadmium	49.3	55.1		mg/Kg		112	80 - 120
Chromium	49.3	57.7		mg/Kg		117	80 - 120
Cobalt	49.3	57.2		mg/Kg		116	80 - 120
Copper	49.3	53.8		mg/Kg		109	80 - 120
Lead	49.3	54.6		mg/Kg		111	80 - 120
Molybdenum	49.3	53.7		mg/Kg		109	80 - 120
Nickel	49.3	57.9		mg/Kg		117	80 - 120
Selenium	49.3	49.1		mg/Kg		100	80 - 120
Silver	24.6	27.0		mg/Kg		109	80 - 120
Thallium	49.3	53.7		mg/Kg		109	80 - 120
Vanadium	49.3	57.1		mg/Kg		116	80 - 120
Zinc	49.3	53.1		mg/Kg		108	80 - 120

Lab Sample ID: 440-102760-1 MS
Matrix: Solid
Analysis Batch: 239779

Client Sample ID: SB8-1
Prep Type: Total/NA
Prep Batch: 239082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		49.8	15.2	F1	mg/Kg		30	75 - 125
Arsenic	2.7	J	49.8	58.1		mg/Kg		111	75 - 125
Barium	38		49.8	109	F1	mg/Kg		143	75 - 125
Beryllium	0.26	J	49.8	54.4		mg/Kg		109	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-102760-1 MS
Matrix: Solid
Analysis Batch: 239779

Client Sample ID: SB8-1
Prep Type: Total/NA
Prep Batch: 239082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		49.8	52.9		mg/Kg		106	75 - 125
Chromium	17		49.8	80.4	F1	mg/Kg		128	75 - 125
Cobalt	5.5		49.8	63.5		mg/Kg		117	75 - 125
Copper	8.4		49.8	66.4		mg/Kg		117	75 - 125
Lead	6.1		49.8	62.1		mg/Kg		113	75 - 125
Molybdenum	ND		49.8	49.5		mg/Kg		99	75 - 125
Nickel	14		49.8	76.1		mg/Kg		125	75 - 125
Selenium	ND		49.8	48.6		mg/Kg		98	75 - 125
Silver	ND		24.9	26.8		mg/Kg		108	75 - 125
Thallium	ND		49.8	51.3		mg/Kg		103	75 - 125
Vanadium	20		49.8	86.4	F1	mg/Kg		133	75 - 125
Zinc	20		49.8	78.8		mg/Kg		118	75 - 125

Lab Sample ID: 440-102760-1 MSD
Matrix: Solid
Analysis Batch: 239779

Client Sample ID: SB8-1
Prep Type: Total/NA
Prep Batch: 239082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		49.5	16.3	F1	mg/Kg		33	75 - 125	7	20
Arsenic	2.7	J	49.5	54.2		mg/Kg		104	75 - 125	7	20
Barium	38		49.5	98.2		mg/Kg		121	75 - 125	11	20
Beryllium	0.26	J	49.5	51.2		mg/Kg		103	75 - 125	6	20
Cadmium	ND		49.5	49.8		mg/Kg		101	75 - 125	6	20
Chromium	17		49.5	72.0		mg/Kg		111	75 - 125	11	20
Cobalt	5.5		49.5	59.1		mg/Kg		108	75 - 125	7	20
Copper	8.4		49.5	62.8		mg/Kg		110	75 - 125	6	20
Lead	6.1		49.5	58.3		mg/Kg		105	75 - 125	6	20
Molybdenum	ND		49.5	46.8		mg/Kg		95	75 - 125	6	20
Nickel	14		49.5	70.3		mg/Kg		114	75 - 125	8	20
Selenium	ND		49.5	45.3		mg/Kg		91	75 - 125	7	20
Silver	ND		24.8	25.1		mg/Kg		102	75 - 125	6	20
Thallium	ND		49.5	47.7		mg/Kg		96	75 - 125	7	20
Vanadium	20		49.5	79.9		mg/Kg		120	75 - 125	8	20
Zinc	20		49.5	74.0		mg/Kg		109	75 - 125	6	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-239524/1-A
Matrix: Solid
Analysis Batch: 239581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		02/27/15 17:50	02/28/15 02:01	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 440-239524/2-A
Matrix: Solid
Analysis Batch: 239581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.792		mg/Kg		99	80 - 120

Lab Sample ID: 440-102871-B-1-C MS
Matrix: Solid
Analysis Batch: 239581

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.30		0.800	1.02		mg/Kg		90	70 - 130

Lab Sample ID: 440-102871-B-1-D MSD
Matrix: Solid
Analysis Batch: 239581

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.30		0.784	1.06		mg/Kg		97	70 - 130	4	20

Lab Sample ID: MB 440-239868/1-A
Matrix: Solid
Analysis Batch: 240130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		03/02/15 13:23	03/03/15 04:21	1

Lab Sample ID: LCS 440-239868/2-A
Matrix: Solid
Analysis Batch: 240130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.765		mg/Kg		96	80 - 120

Lab Sample ID: 440-102850-B-29-B MS
Matrix: Solid
Analysis Batch: 240130

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.075		0.800	0.779		mg/Kg		88	70 - 130

Lab Sample ID: 440-102850-B-29-C MSD
Matrix: Solid
Analysis Batch: 240130

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.075		0.800	0.828		mg/Kg		94	70 - 130	6	20

Lab Sample ID: MB 440-239982/1-A
Matrix: Solid
Analysis Batch: 240132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		03/02/15 19:28	03/03/15 09:39	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Lab Sample ID: LCS 440-239982/2-A
Matrix: Solid
Analysis Batch: 240132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239982

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.800	0.840		mg/Kg		105	80 - 120		

Lab Sample ID: 440-102980-B-30-H MS
Matrix: Solid
Analysis Batch: 240132

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 239982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.021		0.816	0.831		mg/Kg		99	70 - 130		

Lab Sample ID: 440-102980-B-30-I MSD
Matrix: Solid
Analysis Batch: 240132

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 239982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.021		0.816	0.848		mg/Kg		101	70 - 130	2	20

GC/MS VOA

Analysis Batch: 239599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-2	SB8-5	Total/NA	Solid	8260B/5030B	
440-102760-7	SB7-5	Total/NA	Solid	8260B/5030B	
440-102760-12	SB5-5	Total/NA	Solid	8260B/5030B	
440-102760-17	SB6-5	Total/NA	Solid	8260B/5030B	
440-102760-22	SB4-5	Total/NA	Solid	8260B/5030B	
440-102760-27	SB3-5	Total/NA	Solid	8260B/5030B	
440-102987-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/5030B	
440-102987-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/5030B	
LCS 440-239599/5	Lab Control Sample	Total/NA	Solid	8260B/5030B	
MB 440-239599/4	Method Blank	Total/NA	Solid	8260B/5030B	

Analysis Batch: 239764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-30	SB3-20	Total/NA	Solid	8260B/5030B	
440-102760-30 MS	SB3-20	Total/NA	Solid	8260B/5030B	
440-102760-30 MSD	SB3-20	Total/NA	Solid	8260B/5030B	
440-102760-32	SB1-5	Total/NA	Solid	8260B/5030B	
440-102760-37	SB2-5	Total/NA	Solid	8260B/5030B	
LCS 440-239764/4	Lab Control Sample	Total/NA	Solid	8260B/5030B	
MB 440-239764/3	Method Blank	Total/NA	Solid	8260B/5030B	

Analysis Batch: 240034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-30 - RA	SB3-20	Total/NA	Solid	8260B/5030B	
440-103014-A-1 MS	Matrix Spike	Total/NA	Solid	8260B/5030B	
440-103014-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/5030B	
LCS 440-240034/7	Lab Control Sample	Total/NA	Solid	8260B/5030B	
MB 440-240034/6	Method Blank	Total/NA	Solid	8260B/5030B	

GC/MS Semi VOA

Prep Batch: 239632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	3546	
440-102760-2	SB8-5	Total/NA	Solid	3546	
440-102760-6	SB7-1	Total/NA	Solid	3546	
440-102760-7	SB7-5	Total/NA	Solid	3546	
440-102760-11	SB5-1	Total/NA	Solid	3546	
440-102760-12	SB5-5	Total/NA	Solid	3546	
440-102760-16	SB6-1	Total/NA	Solid	3546	
440-102760-17	SB6-5	Total/NA	Solid	3546	
440-102760-21	SB4-1	Total/NA	Solid	3546	
440-102760-22	SB4-5	Total/NA	Solid	3546	
440-102760-26	SB3-1	Total/NA	Solid	3546	
440-102760-27	SB3-5	Total/NA	Solid	3546	
440-102760-30	SB3-20	Total/NA	Solid	3546	
440-102760-31	SB1-1	Total/NA	Solid	3546	
440-102760-32	SB1-5	Total/NA	Solid	3546	
440-102760-36	SB2-1	Total/NA	Solid	3546	
440-102760-37	SB2-5	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 239632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102980-A-30-J MS	Matrix Spike	Total/NA	Solid	3546	
440-102980-A-30-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-239632/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-239632/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 239916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102980-A-30-J MS	Matrix Spike	Total/NA	Solid	8270C	239632
440-102980-A-30-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C	239632
LCS 440-239632/2-A	Lab Control Sample	Total/NA	Solid	8270C	239632

Analysis Batch: 240777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-239632/1-A	Method Blank	Total/NA	Solid	8270C	239632

Analysis Batch: 241098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-6	SB7-1	Total/NA	Solid	8270C	239632
440-102760-17	SB6-5	Total/NA	Solid	8270C	239632
440-102760-21	SB4-1	Total/NA	Solid	8270C	239632
440-102760-30	SB3-20	Total/NA	Solid	8270C	239632
440-102760-37	SB2-5	Total/NA	Solid	8270C	239632

Analysis Batch: 241228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	8270C	239632
440-102760-2	SB8-5	Total/NA	Solid	8270C	239632
440-102760-7	SB7-5	Total/NA	Solid	8270C	239632
440-102760-11	SB5-1	Total/NA	Solid	8270C	239632
440-102760-12	SB5-5	Total/NA	Solid	8270C	239632
440-102760-16	SB6-1	Total/NA	Solid	8270C	239632
440-102760-22	SB4-5	Total/NA	Solid	8270C	239632
440-102760-26	SB3-1	Total/NA	Solid	8270C	239632
440-102760-27	SB3-5	Total/NA	Solid	8270C	239632
440-102760-31	SB1-1	Total/NA	Solid	8270C	239632
440-102760-32	SB1-5	Total/NA	Solid	8270C	239632
440-102760-36	SB2-1	Total/NA	Solid	8270C	239632

GC VOA

Analysis Batch: 239107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-2	SB8-5	Total/NA	Solid	8015B	
440-102760-2 MS	SB8-5	Total/NA	Solid	8015B	
440-102760-2 MSD	SB8-5	Total/NA	Solid	8015B	
440-102760-7	SB7-5	Total/NA	Solid	8015B	
440-102760-12	SB5-5	Total/NA	Solid	8015B	
440-102760-17	SB6-5	Total/NA	Solid	8015B	
440-102760-22	SB4-5	Total/NA	Solid	8015B	
440-102760-27	SB3-5	Total/NA	Solid	8015B	

GC VOA (Continued)

Analysis Batch: 239107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-30	SB3-20	Total/NA	Solid	8015B	
440-102760-32	SB1-5	Total/NA	Solid	8015B	
LCS 440-239107/4	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-239107/5	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 440-239107/6	Method Blank	Total/NA	Solid	8015B	

Analysis Batch: 239228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-37	SB2-5	Total/NA	Solid	8015B	
440-102760-37 MS	SB2-5	Total/NA	Solid	8015B	
440-102760-37 MSD	SB2-5	Total/NA	Solid	8015B	
LCS 440-239228/38	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-239228/39	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 440-239228/40	Method Blank	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 239359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-2	SB8-5	Total/NA	Solid	3546	
440-102760-7	SB7-5	Total/NA	Solid	3546	
440-102760-12	SB5-5	Total/NA	Solid	3546	
440-102760-17	SB6-5	Total/NA	Solid	3546	
440-102760-22	SB4-5	Total/NA	Solid	3546	
440-102760-27	SB3-5	Total/NA	Solid	3546	
440-102960-A-1-B MS	Matrix Spike	Total/NA	Solid	3546	
440-102960-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-239359/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-239359/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 239384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-2	SB8-5	Total/NA	Solid	8015B	239359
440-102760-7	SB7-5	Total/NA	Solid	8015B	239359
440-102760-12	SB5-5	Total/NA	Solid	8015B	239359
440-102760-17	SB6-5	Total/NA	Solid	8015B	239359
440-102760-32	SB1-5	Total/NA	Solid	8015B	239433
440-102760-32 MS	SB1-5	Total/NA	Solid	8015B	239433
440-102760-32 MSD	SB1-5	Total/NA	Solid	8015B	239433
LCS 440-239433/2-A	Lab Control Sample	Total/NA	Solid	8015B	239433
MB 440-239433/1-A	Method Blank	Total/NA	Solid	8015B	239433

Analysis Batch: 239385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-22	SB4-5	Total/NA	Solid	8015B	239359
440-102760-27	SB3-5	Total/NA	Solid	8015B	239359
440-102760-30	SB3-20	Total/NA	Solid	8015B	239433
440-102760-37	SB2-5	Total/NA	Solid	8015B	239433
440-102960-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B	239359
440-102960-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	239359

GC Semi VOA (Continued)

Analysis Batch: 239425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-239359/2-A	Lab Control Sample	Total/NA	Solid	8015B	239359
MB 440-239359/1-A	Method Blank	Total/NA	Solid	8015B	239359

Prep Batch: 239433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-30	SB3-20	Total/NA	Solid	3546	
440-102760-32	SB1-5	Total/NA	Solid	3546	
440-102760-32 MS	SB1-5	Total/NA	Solid	3546	
440-102760-32 MSD	SB1-5	Total/NA	Solid	3546	
440-102760-37	SB2-5	Total/NA	Solid	3546	
LCS 440-239433/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-239433/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 239684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	3546	
440-102760-2	SB8-5	Total/NA	Solid	3546	
440-102760-6	SB7-1	Total/NA	Solid	3546	
440-102760-7	SB7-5	Total/NA	Solid	3546	
440-102760-11	SB5-1	Total/NA	Solid	3546	
440-102760-12	SB5-5	Total/NA	Solid	3546	
440-102760-16	SB6-1	Total/NA	Solid	3546	
440-102760-17	SB6-5	Total/NA	Solid	3546	
440-102760-21	SB4-1	Total/NA	Solid	3546	
440-102760-22	SB4-5	Total/NA	Solid	3546	
440-102760-26	SB3-1	Total/NA	Solid	3546	
440-102760-27	SB3-5	Total/NA	Solid	3546	
440-102760-30	SB3-20	Total/NA	Solid	3546	
440-102760-31	SB1-1	Total/NA	Solid	3546	
440-102760-32	SB1-5	Total/NA	Solid	3546	
440-102760-36	SB2-1	Total/NA	Solid	3546	
440-102760-37	SB2-5	Total/NA	Solid	3546	
440-102980-B-30-C MS	Matrix Spike	Total/NA	Solid	3546	
440-102980-B-30-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
LCS 440-239684/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-239684/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 240107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	3546	
440-102760-1 MS	SB8-1	Total/NA	Solid	3546	
440-102760-1 MSD	SB8-1	Total/NA	Solid	3546	
440-102760-2	SB8-5	Total/NA	Solid	3546	
440-102760-6	SB7-1	Total/NA	Solid	3546	
440-102760-7	SB7-5	Total/NA	Solid	3546	
440-102760-11	SB5-1	Total/NA	Solid	3546	
440-102760-12	SB5-5	Total/NA	Solid	3546	
440-102760-16	SB6-1	Total/NA	Solid	3546	
440-102760-17	SB6-5	Total/NA	Solid	3546	
440-102760-21	SB4-1	Total/NA	Solid	3546	
440-102760-22	SB4-5	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 240107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-26	SB3-1	Total/NA	Solid	3546	
440-102760-27	SB3-5	Total/NA	Solid	3546	
440-102760-30	SB3-20	Total/NA	Solid	3546	
440-102760-31	SB1-1	Total/NA	Solid	3546	
440-102760-32	SB1-5	Total/NA	Solid	3546	
440-102760-36	SB2-1	Total/NA	Solid	3546	
440-102760-37	SB2-5	Total/NA	Solid	3546	
LCS 440-240107/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-240107/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 240111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	8082	239684
440-102760-2	SB8-5	Total/NA	Solid	8082	239684
440-102760-6	SB7-1	Total/NA	Solid	8082	239684
440-102760-7	SB7-5	Total/NA	Solid	8082	239684
440-102760-11	SB5-1	Total/NA	Solid	8082	239684
440-102760-12	SB5-5	Total/NA	Solid	8082	239684
440-102760-16	SB6-1	Total/NA	Solid	8082	239684
440-102760-17	SB6-5	Total/NA	Solid	8082	239684
440-102760-21	SB4-1	Total/NA	Solid	8082	239684
440-102760-22	SB4-5	Total/NA	Solid	8082	239684
440-102760-26	SB3-1	Total/NA	Solid	8082	239684
440-102760-27	SB3-5	Total/NA	Solid	8082	239684
440-102760-30	SB3-20	Total/NA	Solid	8082	239684
440-102760-31	SB1-1	Total/NA	Solid	8082	239684
440-102760-32	SB1-5	Total/NA	Solid	8082	239684
440-102760-36	SB2-1	Total/NA	Solid	8082	239684
440-102760-37	SB2-5	Total/NA	Solid	8082	239684
440-102980-B-30-C MS	Matrix Spike	Total/NA	Solid	8082	239684
440-102980-B-30-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	239684
LCS 440-239684/2-A	Lab Control Sample	Total/NA	Solid	8082	239684
MB 440-239684/1-A	Method Blank	Total/NA	Solid	8082	239684

Analysis Batch: 240118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	8081A	240107
440-102760-1 MS	SB8-1	Total/NA	Solid	8081A	240107
440-102760-1 MSD	SB8-1	Total/NA	Solid	8081A	240107
440-102760-2	SB8-5	Total/NA	Solid	8081A	240107
440-102760-6	SB7-1	Total/NA	Solid	8081A	240107
440-102760-7	SB7-5	Total/NA	Solid	8081A	240107
440-102760-11	SB5-1	Total/NA	Solid	8081A	240107
440-102760-12	SB5-5	Total/NA	Solid	8081A	240107
440-102760-16	SB6-1	Total/NA	Solid	8081A	240107
440-102760-17	SB6-5	Total/NA	Solid	8081A	240107
440-102760-21	SB4-1	Total/NA	Solid	8081A	240107
440-102760-22	SB4-5	Total/NA	Solid	8081A	240107
440-102760-26	SB3-1	Total/NA	Solid	8081A	240107
440-102760-27	SB3-5	Total/NA	Solid	8081A	240107
440-102760-30	SB3-20	Total/NA	Solid	8081A	240107

GC Semi VOA (Continued)

Analysis Batch: 240118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-31	SB1-1	Total/NA	Solid	8081A	240107
440-102760-32	SB1-5	Total/NA	Solid	8081A	240107
440-102760-36	SB2-1	Total/NA	Solid	8081A	240107
440-102760-37	SB2-5	Total/NA	Solid	8081A	240107
LCS 440-240107/2-A	Lab Control Sample	Total/NA	Solid	8081A	240107
MB 440-240107/1-A	Method Blank	Total/NA	Solid	8081A	240107

Analysis Batch: 240417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-6	SB7-1	Total/NA	Solid	8081A	240107
440-102760-16	SB6-1	Total/NA	Solid	8081A	240107
440-102760-32	SB1-5	Total/NA	Solid	8081A	240107

Metals

Prep Batch: 239082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	3050B	
440-102760-1 MS	SB8-1	Total/NA	Solid	3050B	
440-102760-1 MSD	SB8-1	Total/NA	Solid	3050B	
440-102760-2	SB8-5	Total/NA	Solid	3050B	
440-102760-6	SB7-1	Total/NA	Solid	3050B	
440-102760-7	SB7-5	Total/NA	Solid	3050B	
440-102760-11	SB5-1	Total/NA	Solid	3050B	
440-102760-12	SB5-5	Total/NA	Solid	3050B	
440-102760-16	SB6-1	Total/NA	Solid	3050B	
440-102760-17	SB6-5	Total/NA	Solid	3050B	
440-102760-21	SB4-1	Total/NA	Solid	3050B	
440-102760-22	SB4-5	Total/NA	Solid	3050B	
440-102760-26	SB3-1	Total/NA	Solid	3050B	
440-102760-27	SB3-5	Total/NA	Solid	3050B	
440-102760-30	SB3-20	Total/NA	Solid	3050B	
440-102760-31	SB1-1	Total/NA	Solid	3050B	
440-102760-32	SB1-5	Total/NA	Solid	3050B	
440-102760-36	SB2-1	Total/NA	Solid	3050B	
440-102760-37	SB2-5	Total/NA	Solid	3050B	
LCS 440-239082/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-239082/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 239524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-2	SB8-5	Total/NA	Solid	7471A	
440-102760-7	SB7-5	Total/NA	Solid	7471A	
440-102760-12	SB5-5	Total/NA	Solid	7471A	
440-102760-17	SB6-5	Total/NA	Solid	7471A	
440-102760-22	SB4-5	Total/NA	Solid	7471A	
440-102760-27	SB3-5	Total/NA	Solid	7471A	
440-102871-B-1-C MS	Matrix Spike	Total/NA	Solid	7471A	
440-102871-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
LCS 440-239524/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 239524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-239524/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 239581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-2	SB8-5	Total/NA	Solid	7471A	239524
440-102760-7	SB7-5	Total/NA	Solid	7471A	239524
440-102760-12	SB5-5	Total/NA	Solid	7471A	239524
440-102760-17	SB6-5	Total/NA	Solid	7471A	239524
440-102760-22	SB4-5	Total/NA	Solid	7471A	239524
440-102760-27	SB3-5	Total/NA	Solid	7471A	239524
440-102871-B-1-C MS	Matrix Spike	Total/NA	Solid	7471A	239524
440-102871-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	239524
LCS 440-239524/2-A	Lab Control Sample	Total/NA	Solid	7471A	239524
MB 440-239524/1-A	Method Blank	Total/NA	Solid	7471A	239524

Analysis Batch: 239779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	6010B	239082
440-102760-1 MS	SB8-1	Total/NA	Solid	6010B	239082
440-102760-1 MSD	SB8-1	Total/NA	Solid	6010B	239082
440-102760-2	SB8-5	Total/NA	Solid	6010B	239082
440-102760-6	SB7-1	Total/NA	Solid	6010B	239082
440-102760-7	SB7-5	Total/NA	Solid	6010B	239082
440-102760-11	SB5-1	Total/NA	Solid	6010B	239082
440-102760-12	SB5-5	Total/NA	Solid	6010B	239082
440-102760-16	SB6-1	Total/NA	Solid	6010B	239082
440-102760-17	SB6-5	Total/NA	Solid	6010B	239082
440-102760-21	SB4-1	Total/NA	Solid	6010B	239082
440-102760-22	SB4-5	Total/NA	Solid	6010B	239082
440-102760-26	SB3-1	Total/NA	Solid	6010B	239082
440-102760-27	SB3-5	Total/NA	Solid	6010B	239082
440-102760-30	SB3-20	Total/NA	Solid	6010B	239082
440-102760-31	SB1-1	Total/NA	Solid	6010B	239082
440-102760-32	SB1-5	Total/NA	Solid	6010B	239082
440-102760-36	SB2-1	Total/NA	Solid	6010B	239082
440-102760-37	SB2-5	Total/NA	Solid	6010B	239082
LCS 440-239082/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	239082
MB 440-239082/1-A ^5	Method Blank	Total/NA	Solid	6010B	239082

Prep Batch: 239868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	7471A	
440-102760-6	SB7-1	Total/NA	Solid	7471A	
440-102760-11	SB5-1	Total/NA	Solid	7471A	
440-102760-16	SB6-1	Total/NA	Solid	7471A	
440-102760-21	SB4-1	Total/NA	Solid	7471A	
440-102760-26	SB3-1	Total/NA	Solid	7471A	
440-102760-31	SB1-1	Total/NA	Solid	7471A	
440-102760-36	SB2-1	Total/NA	Solid	7471A	
440-102760-37	SB2-5	Total/NA	Solid	7471A	
440-102850-B-29-B MS	Matrix Spike	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 239868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102850-B-29-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
LCS 440-239868/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-239868/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 239982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-30	SB3-20	Total/NA	Solid	7471A	
440-102760-32	SB1-5	Total/NA	Solid	7471A	
440-102980-B-30-H MS	Matrix Spike	Total/NA	Solid	7471A	
440-102980-B-30-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
LCS 440-239982/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-239982/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 240130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-1	SB8-1	Total/NA	Solid	7471A	239868
440-102760-6	SB7-1	Total/NA	Solid	7471A	239868
440-102760-11	SB5-1	Total/NA	Solid	7471A	239868
440-102760-16	SB6-1	Total/NA	Solid	7471A	239868
440-102760-21	SB4-1	Total/NA	Solid	7471A	239868
440-102760-26	SB3-1	Total/NA	Solid	7471A	239868
440-102760-31	SB1-1	Total/NA	Solid	7471A	239868
440-102760-36	SB2-1	Total/NA	Solid	7471A	239868
440-102760-37	SB2-5	Total/NA	Solid	7471A	239868
440-102850-B-29-B MS	Matrix Spike	Total/NA	Solid	7471A	239868
440-102850-B-29-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	239868
LCS 440-239868/2-A	Lab Control Sample	Total/NA	Solid	7471A	239868
MB 440-239868/1-A	Method Blank	Total/NA	Solid	7471A	239868

Analysis Batch: 240132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102760-30	SB3-20	Total/NA	Solid	7471A	239982
440-102760-32	SB1-5	Total/NA	Solid	7471A	239982
440-102980-B-30-H MS	Matrix Spike	Total/NA	Solid	7471A	239982
440-102980-B-30-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	239982
LCS 440-239982/2-A	Lab Control Sample	Total/NA	Solid	7471A	239982
MB 440-239982/1-A	Method Blank	Total/NA	Solid	7471A	239982

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102760-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015B	3546	Solid	DRO (C13-C22)
8015B	3546	Solid	ORO (C23-C40)
8260B/5030B		Solid	1,1,1,2-Tetrachloroethane
8260B/5030B		Solid	1,1,1-Trichloroethane
8260B/5030B		Solid	1,1,2,2-Tetrachloroethane
8260B/5030B		Solid	1,1,2-Trichloroethane
8260B/5030B		Solid	1,1-Dichloroethane
8260B/5030B		Solid	1,1-Dichloroethene
8260B/5030B		Solid	1,1-Dichloropropene
8260B/5030B		Solid	1,2,3-Trichlorobenzene
8260B/5030B		Solid	1,2,3-Trichloropropane
8260B/5030B		Solid	1,2,4-Trichlorobenzene
8260B/5030B		Solid	1,2,4-Trimethylbenzene
8260B/5030B		Solid	1,2-Dibromo-3-Chloropropane
8260B/5030B		Solid	1,2-Dibromoethane (EDB)
8260B/5030B		Solid	1,2-Dichlorobenzene
8260B/5030B		Solid	1,2-Dichloroethane
8260B/5030B		Solid	1,2-Dichloropropane
8260B/5030B		Solid	1,3,5-Trimethylbenzene
8260B/5030B		Solid	1,3-Dichlorobenzene
8260B/5030B		Solid	1,3-Dichloropropane
8260B/5030B		Solid	1,4-Dichlorobenzene
8260B/5030B		Solid	2,2-Dichloropropane
8260B/5030B		Solid	2-Chlorotoluene
8260B/5030B		Solid	4-Chlorotoluene
8260B/5030B		Solid	Benzene
8260B/5030B		Solid	Bromobenzene
8260B/5030B		Solid	Bromochloromethane
8260B/5030B		Solid	Bromodichloromethane
8260B/5030B		Solid	Bromoform
8260B/5030B		Solid	Bromomethane
8260B/5030B		Solid	Carbon tetrachloride
8260B/5030B		Solid	Chlorobenzene
8260B/5030B		Solid	Chloroethane
8260B/5030B		Solid	Chloroform
8260B/5030B		Solid	Chloromethane
8260B/5030B		Solid	cis-1,2-Dichloroethene
8260B/5030B		Solid	cis-1,3-Dichloropropene
8260B/5030B		Solid	Dibromochloromethane
8260B/5030B		Solid	Dibromomethane
8260B/5030B		Solid	Dichlorodifluoromethane
8260B/5030B		Solid	Ethylbenzene
8260B/5030B		Solid	Hexachlorobutadiene
8260B/5030B		Solid	Isopropylbenzene
8260B/5030B		Solid	m,p-Xylene
8260B/5030B		Solid	Methylene Chloride

Laboratory: TestAmerica Irvine (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B/5030B		Solid	Naphthalene
8260B/5030B		Solid	n-Butylbenzene
8260B/5030B		Solid	N-Propylbenzene
8260B/5030B		Solid	o-Xylene
8260B/5030B		Solid	p-Isopropyltoluene
8260B/5030B		Solid	sec-Butylbenzene
8260B/5030B		Solid	Styrene
8260B/5030B		Solid	tert-Butylbenzene
8260B/5030B		Solid	Tetrachloroethene
8260B/5030B		Solid	Toluene
8260B/5030B		Solid	trans-1,2-Dichloroethene
8260B/5030B		Solid	trans-1,3-Dichloropropene
8260B/5030B		Solid	Trichloroethene
8260B/5030B		Solid	Trichlorofluoromethane
8260B/5030B		Solid	Vinyl chloride
8270C	3546	Solid	Pyrene

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013(1007)

Client Name/Address:
Golder Associates
230 commerce ste 200
Irvine, CA 92602

Project/PO Number:
RMC Malibu Phase II ESA
1521576

Project Manager:
Kristina Byrne

Phone Number:
714-508-4400

Sampler:
Kristina Byrne

Fax Number:
714-508-4407

Analysis Required

440-102760 Chain of Custody

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Title 22/CAM17 Metals 6010B	Organochlorine Pesticides 8081A	PCBs 8082	SVOCs 8270C	VOCs 8260B	TPH ~~8015M~~ GRO/DRO/Lorro 8015B				Special Instructions
SB8-1	soil	metal sleeve	2	2/24/15	720	Ice	X	X	X	X						
SB8-5			2		730		X	X	X	X	X	X				
SB8-10			1		740											HOLD
SB8-15			1		750											HOLD
SB8-20			2		800											HOLD
SB7-1			2		820		X	X	X	X						
SB7-5			2		830		X	X	X	X	X	X				
SB7-10			2		840											HOLD
SB7-15			2		850											HOLD
SB7-20			2		900											HOLD
SB5-1			2		940		X	X	X	X						
SB5-5			2		950		X	X	X	X	X	X				
SB5-10			2		1000											HOLD
SB5-15			2		1040											HOLD

Relinquished By: Kristina Byrne — Date/Time: 2/25/15 910

Relinquished By: — Date/Time:

Relinquished By: — Date/Time:

Received By: — Date/Time:

Received By: — Date/Time:

Received in Lab By: — Date/Time: 2-25-15 0910

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

R-1/S-2 IR-71

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
6000 S. Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

TAL-0013 (0911)

Client Name/Address: Golder Associates

Project/PO Number: 1521576 RMC Malibu Phase II ESA

Project Manager: Kristina Byrne

Phone Number: 714-508 4400

Sampler: Kristina Byrne

Fax Number:

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: Title 22 CAM17 Metals 6010B	OCPs 8081A	PCBs 8082	SVOC 8270C	VOC 8260B	TPH 8015B GRO/DRO/ORO				Special Instructions
SBS-20	Soil	metal sleeve	2	2/24/15	1020	Ice										HOLD
SB6-1			2		1030		X	X	X	X						
SB6-5			2		1040		X	X	X	X	X	X				
SB6-10			2		1050											HOLD
SB6-15			2		1100											HOLD
SB6-20			2		1110											HOLD
SB4-1			2		1230		X	X	X	X						
SB4-5			2		1240		X	X	X	X	X	X				
SB4-10			2		1250											HOLD
SB4-15			2		1300											HOLD
SB4-20			2		1310											HOLD
SB3-1			2		1340		X	X	X	X						
SB3-5			2		1350		X	X	X	X	X	X				
SB3-10			2		1400											HOLD

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)	
Kristina Byrne	2/25/15 910			same day ____	72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____	5 days ____
				48 hours ____	normal X
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)	
		Kristin Ingerson	2-25-15 0910	intact ✓	on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

pH 1/5.8 IR 91

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013(1007)

Client Name/Address: Golder

Project/PO Number: 15215 76 RMC Malibu Ph. II ESA

Project Manager: Kristina Byrne

Phone Number: 714 508 4400

Sampler: Kristina Byrne

Fax Number:

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Title 22/CAM 17 Metals 6010B	OCPs 8081A	PCBs 8082	SVOCs 8270C	VOCs 8260B	TPH 8015B GRO/DRO/ORO				Special Instructions
SB3-15	soil	metal sleeve	2	2/24/15	1410	Ice										HOLD
SB3-20			2		1420		X	X	X	X	X	X				
SB1-1			2		1600		X	X	X	X						not VOCs
SB1-5			2		1610		X	X	X	X	X	X				
SB1-10			2		1620											HOLD
SB1-15			2		1630											HOLD
SB1-20			2		1640											HOLD
SB2-1			2		1650		X	X	X	X						
SB2-5			2		1700		X	X	X	X	X	X				
SB2-10			2		1710											HOLD
SB2-15			2		1720											HOLD
SB2-20			2		1730											HOLD

Relinquished By: Kristina Byrne 2/25/15 910 — Date/Time:

Received By: — Date/Time:

Relinquished By: — Date/Time:

Received By: — Date/Time:

Relinquished By: — Date/Time:

Received in Lab By: — Date/Time: 2.25.15 0910

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ✓

Sample Integrity: (Check)
intact ✓ on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

9.1 15.2 SR 71

3/10/2015

Login Sample Receipt Checklist

Client: Golder Associates Inc.

Job Number: 440-102760-1

Login Number: 102760

List Source: TestAmerica Irvine

List Number: 1

Creator: Blocker, Kristina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-102803-1
Client Project/Site: RMC Malibu Phase II; ESA

For:
Golder Associates Inc.
230 Commerce, Suite 200
Irvine, California 92602

Attn: Kristina Byrne

Authorized for release by:
3/9/2015 4:48:17 PM

Kathleen Robb, Project Manager II
(949)261-1022
kathleen.robb@testamericainc.com

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Sample Summary

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-102803-1	MW-1	Water	02/23/15 11:50	02/25/15 08:34
440-102803-2	MW-2	Water	02/23/15 13:15	02/25/15 08:34
440-102803-3	MW-3	Water	02/23/15 14:10	02/25/15 08:34
440-102803-4	MW-4	Water	02/23/15 15:20	02/25/15 08:34
440-102803-5	MW-5	Water	02/23/15 15:50	02/25/15 08:34

Job ID: 440-102803-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-102803-1

Comments
No additional comments.

Receipt
The samples were received on 2/25/2015 8:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625: Surrogate recovery for the following sample(s) was outside control limits: MW-2 (440-102803-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 625: The internal standard Perylene-d12 response was below the 50% minimum QC limit for the following sample: MW-2 (440-102803-2). The chromatogram showed evidence of matrix interference that could have adversely affected the recovery of the affected internal standard. The affected compounds are flagged with an "*" asterisk. If the matrix effect is isolated to Perylene-d12, then the affect on the associated target analyte results are potentially biased high.
.

Method(s) 625: The following sample(s) was diluted due to the nature of the sample matrix: MW-2 (440-102803-2). Elevated reporting limits (RLs) are provided.

Method(s) 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 239547. The LCS was performed in duplicate to provide precision for the batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method(s) 314.0: The following sample in Perchlorate batch 239471 was diluted due to the nature of the sample matrix: MW-1 (440-102803-1). Elevated reporting limit (RL) is provided.

Method(s) 314.0, 314.0 LL: The following sample in batch 240596 was diluted for Perchlorate due to the nature of the sample matrix: MW-2 (440-102803-2). Elevated reporting limit (RL) is provided.

Method(s) 314.0: The following samples for Perchlorate ananlysis in batch 240596 were pretreated due to high background conductivity: (440-102803-1 MS), (440-102803-1 MSD), (LCS 440-240596/25), (MB 440-240596/24), MW-1 (440-102803-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-1
Date Collected: 02/23/15 11:50
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/27/15 21:08	1
2-Hexanone	ND		5.0	2.5	ug/L			02/27/15 21:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/27/15 21:08	1
Acetone	ND		10	4.5	ug/L			02/27/15 21:08	1
Benzene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Bromoform	ND		1.0	0.40	ug/L			02/27/15 21:08	1
Bromomethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/27/15 21:08	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Chloroethane	ND		1.0	0.40	ug/L			02/27/15 21:08	1
Chloroform	ND		0.50	0.25	ug/L			02/27/15 21:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Methylene Chloride	**1.1**	**J**	2.0	0.88	ug/L			02/27/15 21:08	1
Styrene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Toluene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Trichloroethene	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/27/15 21:08	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/27/15 21:08	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/27/15 21:08	1
Chloromethane	ND		0.50	0.25	ug/L			02/27/15 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/27/15 21:08*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/27/15 21:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/27/15 21:08*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-1
Date Collected: 02/23/15 11:50
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
1,4-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
2,4,5-Trichlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
2,4,6-Trichlorophenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
2,4-Dichlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
2,4-Dimethylphenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
2,4-Dinitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
2,4-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
2,6-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
2-Chloronaphthalene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
2-Chlorophenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
2-Methylnaphthalene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
2-Methylphenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
2-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
2-Nitrophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
3,3'-Dichlorobenzidine	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
3-Methylphenol + 4-Methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
3-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
4,6-Dinitro-2-methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
4-Bromophenyl phenyl ether	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
4-Chloro-3-methylphenol	ND		1.9	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
4-Chloroaniline	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
4-Chlorophenyl phenyl ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
4-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
4-Nitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Acenaphthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Acenaphthylene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Aniline	ND		9.6	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Anthracene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzidine	ND		9.6	4.8	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzo[a]anthracene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzo[a]pyrene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzo[b]fluoranthene	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzo[g,h,i]perylene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzo[k]fluoranthene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzoic acid	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Benzyl alcohol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
bis (2-chloroisopropyl) ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Bis(2-chloroethoxy)methane	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Bis(2-chloroethyl)ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Butyl benzyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Chrysene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Dibenz(a,h)anthracene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/06/15 00:24	1
Dibenzofuran	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Diethyl phthalate	**2.1**		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Dimethyl phthalate	ND		0.48	0.24	ug/L		02/27/15 18:59	03/06/15 00:24	1
Di-n-butyl phthalate	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
Di-n-octyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1

Client Sample ID: MW-1

Lab Sample ID: 440-102803-1

Date Collected: 02/23/15 11:50

Matrix: Water

Date Received: 02/25/15 08:34

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Fluorene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Hexachlorobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Hexachlorobutadiene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Hexachlorocyclopentadiene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 00:24	1
Hexachloroethane	ND		2.9	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
Isophorone	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Naphthalene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Nitrobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
N-Nitrosodimethylamine	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
N-Nitrosodi-n-propylamine	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
N-Nitrosodiphenylamine	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Pentachlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/06/15 00:24	1
Phenanthrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1
Phenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/06/15 00:24	1
Pyrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*88*		*40 - 120*	*02/27/15 18:59*	*03/06/15 00:24*	*1*
2-Fluorobiphenyl	*82*		*50 - 120*	*02/27/15 18:59*	*03/06/15 00:24*	*1*
2-Fluorophenol	*68*		*30 - 120*	*02/27/15 18:59*	*03/06/15 00:24*	*1*
Nitrobenzene-d5	*82*		*45 - 120*	*02/27/15 18:59*	*03/06/15 00:24*	*1*
Phenol-d6	*74*		*35 - 120*	*02/27/15 18:59*	*03/06/15 00:24*	*1*
Terphenyl-d14	*82*		*37 - 144*	*02/27/15 18:59*	*03/06/15 00:24*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			03/05/15 16:21	1

Client Sample ID: MW-2

Lab Sample ID: 440-102803-2

Date Collected: 02/23/15 13:15

Matrix: Water

Date Received: 02/25/15 08:34

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/27/15 22:37	1
2-Hexanone	ND		5.0	2.5	ug/L			02/27/15 22:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/27/15 22:37	1
Acetone	ND		10	4.5	ug/L			02/27/15 22:37	1

Client Sample ID: MW-2
Date Collected: 02/23/15 13:15
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Bromoform	ND		1.0	0.40	ug/L			02/27/15 22:37	1
Bromomethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/27/15 22:37	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Chloroethane	ND		1.0	0.40	ug/L			02/27/15 22:37	1
Chloroform	ND		0.50	0.25	ug/L			02/27/15 22:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Methylene Chloride	**0.92**	**J**	2.0	0.88	ug/L			02/27/15 22:37	1
Styrene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Toluene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Trichloroethene	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/27/15 22:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/27/15 22:37	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/27/15 22:37	1
Chloromethane	ND		0.50	0.25	ug/L			02/27/15 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*02/27/15 22:37*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/27/15 22:37*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/27/15 22:37*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
1,2-Dichlorobenzene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
1,2-Diphenylhydrazine(as Azobenzene)	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
1,3-Dichlorobenzene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
1,4-Dichlorobenzene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
2,4,5-Trichlorophenol	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
2,4,6-Trichlorophenol	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
2,4-Dichlorophenol	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
2,4-Dimethylphenol	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
2,4-Dinitrophenol	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
2,4-Dinitrotoluene	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
2,6-Dinitrotoluene	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
2-Chloronaphthalene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
2-Chlorophenol	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
2-Methylnaphthalene	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
2-Methylphenol	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
2-Nitroaniline	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-2
Date Collected: 02/23/15 13:15
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-2
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
3,3'-Dichlorobenzidine	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
3-Methylphenol + 4-Methylphenol	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
3-Nitroaniline	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
4,6-Dinitro-2-methylphenol	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
4-Bromophenyl phenyl ether	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
4-Chloro-3-methylphenol	ND		9.7	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
4-Chloroaniline	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
4-Chlorophenyl phenyl ether	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
4-Nitroaniline	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
4-Nitrophenol	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Acenaphthene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Acenaphthylene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Aniline	ND		48	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Anthracene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzidine	ND		48	24	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzo[a]anthracene	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzo[a]pyrene	ND	*	9.7	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzo[b]fluoranthene	ND	*	9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzo[g,h,i]perylene	ND	*	24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzo[k]fluoranthene	ND	*	2.4	1.2	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzoic acid	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Benzyl alcohol	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
bis (2-chloroisopropyl) ether	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Bis(2-chloroethoxy)methane	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Bis(2-chloroethyl)ether	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Bis(2-ethylhexyl) phthalate	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Butyl benzyl phthalate	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Chrysene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Dibenz(a,h)anthracene	ND	*	2.4	1.2	ug/L		02/27/15 18:59	03/06/15 04:52	5
Dibenzofuran	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Diethyl phthalate	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Dimethyl phthalate	ND		2.4	1.2	ug/L		02/27/15 18:59	03/06/15 04:52	5
Di-n-butyl phthalate	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
Di-n-octyl phthalate	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Fluoranthene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Fluorene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Hexachlorobenzene	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Hexachlorobutadiene	ND		9.7	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Hexachlorocyclopentadiene	ND		24	9.7	ug/L		02/27/15 18:59	03/06/15 04:52	5
Hexachloroethane	ND		14	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Indeno[1,2,3-cd]pyrene	ND	*	9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
Isophorone	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Naphthalene	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Nitrobenzene	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
N-Nitrosodimethylamine	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
N-Nitrosodi-n-propylamine	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5
N-Nitrosodiphenylamine	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Pentachlorophenol	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 04:52	5

Client Sample ID: MW-2

Lab Sample ID: 440-102803-2

Date Collected: 02/23/15 13:15

Matrix: Water

Date Received: 02/25/15 08:34

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5
Phenol	ND		4.8	2.4	ug/L		02/27/15 18:59	03/06/15 04:52	5
Pyrene	ND		2.4	0.97	ug/L		02/27/15 18:59	03/06/15 04:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*82*		*40 - 120*	*02/27/15 18:59*	*03/06/15 04:52*	*5*
2-Fluorobiphenyl	*80*		*50 - 120*	*02/27/15 18:59*	*03/06/15 04:52*	*5*
2-Fluorophenol	*74*		*30 - 120*	*02/27/15 18:59*	*03/06/15 04:52*	*5*
Nitrobenzene-d5	*79*		*45 - 120*	*02/27/15 18:59*	*03/06/15 04:52*	*5*
Phenol-d6	*82*		*35 - 120*	*02/27/15 18:59*	*03/06/15 04:52*	*5*
Terphenyl-d14	*157*	*X*	*37 - 144*	*02/27/15 18:59*	*03/06/15 04:52*	*5*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		20	4.8	ug/L			03/05/15 11:13	5

Client Sample ID: MW-3

Lab Sample ID: 440-102803-3

Date Collected: 02/23/15 14:10

Matrix: Water

Date Received: 02/25/15 08:34

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/27/15 23:06	1
2-Hexanone	ND		5.0	2.5	ug/L			02/27/15 23:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/27/15 23:06	1
Acetone	ND		10	4.5	ug/L			02/27/15 23:06	1
Benzene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Bromoform	ND		1.0	0.40	ug/L			02/27/15 23:06	1
Bromomethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/27/15 23:06	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Chloroethane	ND		1.0	0.40	ug/L			02/27/15 23:06	1
Chloroform	**0.59**		0.50	0.25	ug/L			02/27/15 23:06	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Methylene Chloride	**0.95**	**J**	2.0	0.88	ug/L			02/27/15 23:06	1
Styrene	ND		0.50	0.25	ug/L			02/27/15 23:06	1

Client Sample ID: MW-3
Date Collected: 02/23/15 14:10
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-3
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Toluene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Trichloroethene	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/27/15 23:06	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/27/15 23:06	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/27/15 23:06	1
Chloromethane	ND		0.50	0.25	ug/L			02/27/15 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*02/27/15 23:06*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/27/15 23:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/27/15 23:06*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
1,3-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
1,4-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
2,4,5-Trichlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
2,4,6-Trichlorophenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
2,4-Dichlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
2,4-Dimethylphenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
2,4-Dinitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
2,4-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
2,6-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
2-Chloronaphthalene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
2-Chlorophenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
2-Methylnaphthalene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
2-Methylphenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
2-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
2-Nitrophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
3,3'-Dichlorobenzidine	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
3-Methylphenol + 4-Methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
3-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
4,6-Dinitro-2-methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
4-Bromophenyl phenyl ether	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
4-Chloro-3-methylphenol	ND		1.9	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
4-Chloroaniline	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
4-Chlorophenyl phenyl ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
4-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
4-Nitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Acenaphthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Acenaphthylene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Aniline	ND		9.6	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-3
Date Collected: 02/23/15 14:10
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-3
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzidine	ND		9.6	4.8	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzo[a]anthracene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzo[a]pyrene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzo[b]fluoranthene	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzo[g,h,i]perylene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzo[k]fluoranthene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzoic acid	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Benzyl alcohol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
bis (2-chloroisopropyl) ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Bis(2-chloroethoxy)methane	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Bis(2-chloroethyl)ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Butyl benzyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Chrysene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Dibenz(a,h)anthracene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/05/15 23:57	1
Dibenzofuran	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Diethyl phthalate	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Dimethyl phthalate	ND		0.48	0.24	ug/L		02/27/15 18:59	03/05/15 23:57	1
Di-n-butyl phthalate	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
Di-n-octyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Fluoranthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Fluorene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Hexachlorobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Hexachlorobutadiene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Hexachlorocyclopentadiene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:57	1
Hexachloroethane	ND		2.9	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
Isophorone	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Naphthalene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Nitrobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
N-Nitrosodimethylamine	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
N-Nitrosodi-n-propylamine	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
N-Nitrosodiphenylamine	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Pentachlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:57	1
Phenanthrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1
Phenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:57	1
Pyrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*40 - 120*	*02/27/15 18:59*	*03/05/15 23:57*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*02/27/15 18:59*	*03/05/15 23:57*	*1*
2-Fluorophenol	*67*		*30 - 120*	*02/27/15 18:59*	*03/05/15 23:57*	*1*
Nitrobenzene-d5	*82*		*45 - 120*	*02/27/15 18:59*	*03/05/15 23:57*	*1*
Phenol-d6	*74*		*35 - 120*	*02/27/15 18:59*	*03/05/15 23:57*	*1*
Terphenyl-d14	*102*		*37 - 144*	*02/27/15 18:59*	*03/05/15 23:57*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			02/27/15 02:25	1

Client Sample ID: MW-4
Date Collected: 02/23/15 15:20
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-4
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/27/15 23:36	1
2-Hexanone	ND		5.0	2.5	ug/L			02/27/15 23:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/27/15 23:36	1
Acetone	ND		10	4.5	ug/L			02/27/15 23:36	1
Benzene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Bromoform	ND		1.0	0.40	ug/L			02/27/15 23:36	1
Bromomethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/27/15 23:36	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Chloroethane	ND		1.0	0.40	ug/L			02/27/15 23:36	1
Chloroform	ND		0.50	0.25	ug/L			02/27/15 23:36	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Methylene Chloride	**0.91**	**J**	2.0	0.88	ug/L			02/27/15 23:36	1
Styrene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Toluene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Trichloroethene	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/27/15 23:36	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/27/15 23:36	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/27/15 23:36	1
Chloromethane	ND		0.50	0.25	ug/L			02/27/15 23:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*02/27/15 23:36*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*02/27/15 23:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/27/15 23:36*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-4
Date Collected: 02/23/15 15:20
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-4
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
1,4-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
2,4,5-Trichlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
2,4,6-Trichlorophenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
2,4-Dichlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
2,4-Dimethylphenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
2,4-Dinitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
2,4-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
2,6-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
2-Chloronaphthalene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
2-Chlorophenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
2-Methylnaphthalene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
2-Methylphenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
2-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
2-Nitrophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
3,3'-Dichlorobenzidine	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
3-Methylphenol + 4-Methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
3-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
4,6-Dinitro-2-methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
4-Bromophenyl phenyl ether	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
4-Chloro-3-methylphenol	ND		1.9	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
4-Chloroaniline	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
4-Chlorophenyl phenyl ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
4-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
4-Nitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Acenaphthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Acenaphthylene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Aniline	ND		9.6	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Anthracene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzidine	ND		9.6	4.8	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzo[a]anthracene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzo[a]pyrene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzo[b]fluoranthene	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzo[g,h,i]perylene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzo[k]fluoranthene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzoic acid	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Benzyl alcohol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
bis (2-chloroisopropyl) ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Bis(2-chloroethoxy)methane	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Bis(2-chloroethyl)ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Butyl benzyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Chrysene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Dibenz(a,h)anthracene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/05/15 23:30	1
Dibenzofuran	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Diethyl phthalate	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Dimethyl phthalate	ND		0.48	0.24	ug/L		02/27/15 18:59	03/05/15 23:30	1
Di-n-butyl phthalate	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
Di-n-octyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1

Client Sample ID: MW-4

Date Collected: 02/23/15 15:20
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-4
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Fluorene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Hexachlorobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Hexachlorobutadiene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Hexachlorocyclopentadiene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/05/15 23:30	1
Hexachloroethane	ND		2.9	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
Isophorone	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Naphthalene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Nitrobenzene	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
N-Nitrosodimethylamine	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
N-Nitrosodi-n-propylamine	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
N-Nitrosodiphenylamine	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Pentachlorophenol	ND		1.9	0.96	ug/L		02/27/15 18:59	03/05/15 23:30	1
Phenanthrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1
Phenol	ND		0.96	0.48	ug/L		02/27/15 18:59	03/05/15 23:30	1
Pyrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/05/15 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*40 - 120*	*02/27/15 18:59*	*03/05/15 23:30*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*02/27/15 18:59*	*03/05/15 23:30*	*1*
2-Fluorophenol	*65*		*30 - 120*	*02/27/15 18:59*	*03/05/15 23:30*	*1*
Nitrobenzene-d5	*84*		*45 - 120*	*02/27/15 18:59*	*03/05/15 23:30*	*1*
Phenol-d6	*73*		*35 - 120*	*02/27/15 18:59*	*03/05/15 23:30*	*1*
Terphenyl-d14	*99*		*37 - 144*	*02/27/15 18:59*	*03/05/15 23:30*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			02/27/15 02:43	1

Client Sample ID: MW-5

Date Collected: 02/23/15 15:50
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-5
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/28/15 00:06	1
2-Hexanone	ND		5.0	2.5	ug/L			02/28/15 00:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/28/15 00:06	1
Acetone	**26**		10	4.5	ug/L			02/28/15 00:06	1

Client Sample ID: MW-5
Date Collected: 02/23/15 15:50
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-5
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Bromoform	ND		1.0	0.40	ug/L			02/28/15 00:06	1
Bromomethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/28/15 00:06	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Chloroethane	ND		1.0	0.40	ug/L			02/28/15 00:06	1
Chloroform	**1.0**		0.50	0.25	ug/L			02/28/15 00:06	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/28/15 00:06	1
Styrene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Toluene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Trichloroethene	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/28/15 00:06	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/28/15 00:06	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/28/15 00:06	1
Chloromethane	ND		0.50	0.25	ug/L			02/28/15 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*02/28/15 00:06*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/28/15 00:06*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*02/28/15 00:06*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
1,2-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
1,3-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
1,4-Dichlorobenzene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
2,4,5-Trichlorophenol	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
2,4,6-Trichlorophenol	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
2,4-Dichlorophenol	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
2,4-Dimethylphenol	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
2,4-Dinitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
2,4-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
2,6-Dinitrotoluene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
2-Chloronaphthalene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
2-Chlorophenol	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
2-Methylnaphthalene	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
2-Methylphenol	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
2-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-5
Date Collected: 02/23/15 15:50
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-5
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
3,3'-Dichlorobenzidine	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
3-Methylphenol + 4-Methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
3-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
4,6-Dinitro-2-methylphenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
4-Bromophenyl phenyl ether	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
4-Chloro-3-methylphenol	ND		1.9	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
4-Chloroaniline	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
4-Chlorophenyl phenyl ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
4-Nitroaniline	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
4-Nitrophenol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Acenaphthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Acenaphthylene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Aniline	ND		9.7	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Anthracene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzidine	ND		9.7	4.8	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzo[a]anthracene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzo[a]pyrene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzo[b]fluoranthene	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzo[g,h,i]perylene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzo[k]fluoranthene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzoic acid	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Benzyl alcohol	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
bis (2-chloroisopropyl) ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Bis(2-chloroethoxy)methane	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Bis(2-chloroethyl)ether	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Bis(2-ethylhexyl) phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Butyl benzyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Chrysene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Dibenz(a,h)anthracene	ND		0.48	0.24	ug/L		02/27/15 18:59	03/06/15 01:17	1
Dibenzofuran	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Diethyl phthalate	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Dimethyl phthalate	ND		0.48	0.24	ug/L		02/27/15 18:59	03/06/15 01:17	1
Di-n-butyl phthalate	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
Di-n-octyl phthalate	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Fluoranthene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Fluorene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Hexachlorobenzene	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Hexachlorobutadiene	ND		1.9	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Hexachlorocyclopentadiene	ND		4.8	1.9	ug/L		02/27/15 18:59	03/06/15 01:17	1
Hexachloroethane	ND		2.9	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
Isophorone	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Naphthalene	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Nitrobenzene	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
N-Nitrosodimethylamine	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
N-Nitrosodi-n-propylamine	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1
N-Nitrosodiphenylamine	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Pentachlorophenol	ND		1.9	0.97	ug/L		02/27/15 18:59	03/06/15 01:17	1

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-5
Date Collected: 02/23/15 15:50
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-5
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1
Phenol	ND		0.97	0.48	ug/L		02/27/15 18:59	03/06/15 01:17	1
Pyrene	ND		0.48	0.19	ug/L		02/27/15 18:59	03/06/15 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*40 - 120*	*02/27/15 18:59*	*03/06/15 01:17*	*1*
2-Fluorobiphenyl	*87*		*50 - 120*	*02/27/15 18:59*	*03/06/15 01:17*	*1*
2-Fluorophenol	*68*		*30 - 120*	*02/27/15 18:59*	*03/06/15 01:17*	*1*
Nitrobenzene-d5	*83*		*45 - 120*	*02/27/15 18:59*	*03/06/15 01:17*	*1*
Phenol-d6	*75*		*35 - 120*	*02/27/15 18:59*	*03/06/15 01:17*	*1*
Terphenyl-d14	*104*		*37 - 144*	*02/27/15 18:59*	*03/06/15 01:17*	*1*

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			02/27/15 03:00	1

Method Summary

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL IRV
625	Semivolatile Organic Compounds (GC/MS)	EPA	TAL IRV
314.0	Perchlorate (IC)	EPA	TAL IRV

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: MW-1

Lab Sample ID: 440-102803-1

Date Collected: 02/23/15 11:50

Matrix: Water

Date Received: 02/25/15 08:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	10 mL	10 mL	239533	02/27/15 21:08	MP	TAL IRV
Total/NA	Prep	625			1040 mL	2 mL	239547	02/27/15 18:59	AK	TAL IRV
Total/NA	Analysis	625		1	1040 mL	2 mL	240833	03/06/15 00:24	VS	TAL IRV
Total/NA	Analysis	314.0		1	1 mL		240596	03/05/15 16:21	CH	TAL IRV

Client Sample ID: MW-2

Lab Sample ID: 440-102803-2

Date Collected: 02/23/15 13:15

Matrix: Water

Date Received: 02/25/15 08:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	10 mL	10 mL	239533	02/27/15 22:37	MP	TAL IRV
Total/NA	Prep	625			1035 mL	2 mL	239547	02/27/15 18:59	AK	TAL IRV
Total/NA	Analysis	625		5	1035 mL	2 mL	240833	03/06/15 04:52	VS	TAL IRV
Total/NA	Analysis	314.0		5	1 mL		240596	03/05/15 11:13	CH	TAL IRV

Client Sample ID: MW-3

Lab Sample ID: 440-102803-3

Date Collected: 02/23/15 14:10

Matrix: Water

Date Received: 02/25/15 08:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	10 mL	10 mL	239533	02/27/15 23:06	MP	TAL IRV
Total/NA	Prep	625			1045 mL	2 mL	239547	02/27/15 18:59	AK	TAL IRV
Total/NA	Analysis	625		1	1045 mL	2 mL	240833	03/05/15 23:57	VS	TAL IRV
Total/NA	Analysis	314.0		1	1 mL		238982	02/27/15 02:25	CH	TAL IRV

Client Sample ID: MW-4

Lab Sample ID: 440-102803-4

Date Collected: 02/23/15 15:20

Matrix: Water

Date Received: 02/25/15 08:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	10 mL	10 mL	239533	02/27/15 23:36	MP	TAL IRV
Total/NA	Prep	625			1040 mL	2 mL	239547	02/27/15 18:59	AK	TAL IRV
Total/NA	Analysis	625		1	1040 mL	2 mL	240833	03/05/15 23:30	VS	TAL IRV
Total/NA	Analysis	314.0		1	1 mL		238982	02/27/15 02:43	CH	TAL IRV

Client Sample ID: MW-5

Lab Sample ID: 440-102803-5

Date Collected: 02/23/15 15:50

Matrix: Water

Date Received: 02/25/15 08:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	10 mL	10 mL	239533	02/28/15 00:06	MP	TAL IRV
Total/NA	Prep	625			1035 mL	2 mL	239547	02/27/15 18:59	AK	TAL IRV

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Client Sample ID: MW-5
Date Collected: 02/23/15 15:50
Date Received: 02/25/15 08:34

Lab Sample ID: 440-102803-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	625		1	1035 mL	2 mL	240833	03/06/15 01:17	VS	TAL IRV
Total/NA	Analysis	314.0		1	1 mL		238982	02/27/15 03:00	CH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-239533/3
Matrix: Water
Analysis Batch: 239533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/27/15 19:35	1
2-Hexanone	ND		5.0	2.5	ug/L			02/27/15 19:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/27/15 19:35	1
Acetone	ND		10	4.5	ug/L			02/27/15 19:35	1
Benzene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Bromoform	ND		1.0	0.40	ug/L			02/27/15 19:35	1
Bromomethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/27/15 19:35	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Chloroethane	ND		1.0	0.40	ug/L			02/27/15 19:35	1
Chloroform	ND		0.50	0.25	ug/L			02/27/15 19:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/27/15 19:35	1
Styrene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Toluene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Trichloroethene	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/27/15 19:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/27/15 19:35	1
Xylenes, Total	ND		1.0	0.50	ug/L			02/27/15 19:35	1
Chloromethane	ND		0.50	0.25	ug/L			02/27/15 19:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*02/27/15 19:35*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/27/15 19:35*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/27/15 19:35*	*1*

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-239533/4
Matrix: Water
Analysis Batch: 239533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.1		ug/L		84	63 - 130
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
1,1-Dichloroethane	25.0	23.2		ug/L		93	64 - 130
1,1-Dichloroethene	25.0	27.0		ug/L		108	70 - 130
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	23.0		ug/L		92	57 - 138
1,2-Dichloropropane	25.0	22.0		ug/L		88	67 - 130
1,3-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
2-Butanone (MEK)	25.0	22.8		ug/L		91	44 - 150
2-Hexanone	25.0	18.3		ug/L		73	10 - 150
4-Methyl-2-pentanone (MIBK)	25.0	19.5		ug/L		78	59 - 149
Acetone	25.0	18.9		ug/L		75	10 - 150
Benzene	25.0	23.0		ug/L		92	68 - 130
Carbon tetrachloride	25.0	31.0		ug/L		124	60 - 150
Chlorobenzene	25.0	23.1		ug/L		92	70 - 130
Bromoform	25.0	28.6		ug/L		115	60 - 148
Bromomethane	25.0	25.6		ug/L		103	64 - 139
Carbon disulfide	25.0	27.7		ug/L		111	52 - 136
Dibromochloromethane	25.0	28.0		ug/L		112	69 - 145
Chloroethane	25.0	24.4		ug/L		98	64 - 135
Chloroform	25.0	24.0		ug/L		96	70 - 130
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 133
Bromodichloromethane	25.0	25.1		ug/L		100	70 - 132
Ethylbenzene	25.0	23.5		ug/L		94	70 - 130
Methylene Chloride	25.0	25.5		ug/L		102	52 - 130
Styrene	25.0	24.2		ug/L		97	70 - 134
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130
Toluene	25.0	23.9		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 132
Trichloroethene	25.0	25.6		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	24.0		ug/L		96	60 - 150
Vinyl acetate	25.0	30.1		ug/L		120	48 - 140
Vinyl chloride	25.0	22.9		ug/L		91	59 - 133
Xylenes, Total	50.0	48.9		ug/L		98	70 - 130
Chloromethane	25.0	23.0		ug/L		92	47 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*
Toluene-d8 (Surr)	*99*		*80 - 128*

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102803-1 MS
Matrix: Water
Analysis Batch: 239533

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	26.9		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	21.1		ug/L		84	63 - 130
1,1,2-Trichloroethane	ND		25.0	22.5		ug/L		90	70 - 130
1,1-Dichloroethane	ND		25.0	23.2		ug/L		93	65 - 130
1,1-Dichloroethene	ND		25.0	26.2		ug/L		105	70 - 130
1,2-Dichlorobenzene	ND		25.0	22.9		ug/L		92	70 - 130
1,2-Dichloroethane	ND		25.0	24.8		ug/L		99	56 - 146
1,2-Dichloropropane	ND		25.0	23.0		ug/L		92	69 - 130
1,3-Dichlorobenzene	ND		25.0	22.5		ug/L		90	70 - 130
1,4-Dichlorobenzene	ND		25.0	22.3		ug/L		89	70 - 130
2-Butanone (MEK)	ND		25.0	21.5		ug/L		86	48 - 140
2-Hexanone	ND		25.0	18.3		ug/L		73	10 - 150
4-Methyl-2-pentanone (MIBK)	ND		25.0	20.0		ug/L		80	52 - 150
Acetone	ND		25.0	17.2		ug/L		69	10 - 150
Benzene	ND		25.0	23.1		ug/L		92	66 - 130
Carbon tetrachloride	ND		25.0	31.0		ug/L		124	60 - 150
Chlorobenzene	ND		25.0	22.9		ug/L		91	70 - 130
Bromoform	ND		25.0	29.3		ug/L		117	59 - 150
Bromomethane	ND		25.0	25.5		ug/L		102	62 - 131
Carbon disulfide	ND		25.0	27.2		ug/L		109	49 - 140
Dibromochloromethane	ND		25.0	29.0		ug/L		116	70 - 148
Chloroethane	ND		25.0	24.1		ug/L		96	68 - 130
Chloroform	ND		25.0	24.6		ug/L		99	70 - 130
cis-1,3-Dichloropropene	ND		25.0	26.2		ug/L		105	70 - 133
Bromodichloromethane	ND		25.0	26.2		ug/L		105	70 - 138
Ethylbenzene	ND		25.0	22.6		ug/L		91	70 - 130
Methylene Chloride	1.1	J	25.0	26.4		ug/L		101	52 - 130
Styrene	ND		25.0	23.2		ug/L		93	29 - 150
Tetrachloroethene	ND		25.0	24.7		ug/L		99	70 - 137
Toluene	ND		25.0	22.8		ug/L		91	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.7		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		25.0	28.0		ug/L		112	70 - 138
Trichloroethene	ND		25.0	25.4		ug/L		102	70 - 130
Trichlorofluoromethane	ND		25.0	23.9		ug/L		96	60 - 150
Vinyl acetate	ND		25.0	32.7		ug/L		131	23 - 150
Vinyl chloride	ND		25.0	23.0		ug/L		92	50 - 137
Xylenes, Total	ND		50.0	47.6		ug/L		95	70 - 133
Chloromethane	ND		25.0	22.5		ug/L		90	39 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-102803-1 MSD
Matrix: Water
Analysis Batch: 239533

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	25.8		ug/L		103	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		25.0	20.6		ug/L		82	63 - 130	2	30
1,1,2-Trichloroethane	ND		25.0	22.0		ug/L		88	70 - 130	2	25
1,1-Dichloroethane	ND		25.0	22.5		ug/L		90	65 - 130	3	20
1,1-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130	2	20
1,2-Dichlorobenzene	ND		25.0	22.5		ug/L		90	70 - 130	2	20
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	56 - 146	5	20
1,2-Dichloropropane	ND		25.0	22.5		ug/L		90	69 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	22.6		ug/L		90	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	22.5		ug/L		90	70 - 130	1	20
2-Butanone (MEK)	ND		25.0	22.3		ug/L		89	48 - 140	3	40
2-Hexanone	ND		25.0	17.5		ug/L		70	10 - 150	4	35
4-Methyl-2-pentanone (MIBK)	ND		25.0	18.9		ug/L		76	52 - 150	6	35
Acetone	ND		25.0	15.9		ug/L		64	10 - 150	8	35
Benzene	ND		25.0	22.3		ug/L		89	66 - 130	4	20
Carbon tetrachloride	ND		25.0	30.2		ug/L		121	60 - 150	3	25
Chlorobenzene	ND		25.0	22.3		ug/L		89	70 - 130	2	20
Bromoform	ND		25.0	27.8		ug/L		111	59 - 150	5	25
Bromomethane	ND		25.0	25.0		ug/L		100	62 - 131	2	25
Carbon disulfide	ND		25.0	26.4		ug/L		106	49 - 140	3	20
Dibromochloromethane	ND		25.0	27.7		ug/L		111	70 - 148	5	25
Chloroethane	ND		25.0	23.9		ug/L		96	68 - 130	1	25
Chloroform	ND		25.0	23.8		ug/L		95	70 - 130	3	20
cis-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	70 - 133	4	20
Bromodichloromethane	ND		25.0	25.4		ug/L		101	70 - 138	3	20
Ethylbenzene	ND		25.0	22.5		ug/L		90	70 - 130	1	20
Methylene Chloride	1.1	J	25.0	25.4		ug/L		97	52 - 130	4	20
Styrene	ND		25.0	23.0		ug/L		92	29 - 150	1	30
Tetrachloroethene	ND		25.0	24.1		ug/L		96	70 - 137	3	20
Toluene	ND		25.0	22.6		ug/L		90	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	24.5		ug/L		98	70 - 130	5	20
trans-1,3-Dichloropropene	ND		25.0	27.4		ug/L		109	70 - 138	2	25
Trichloroethene	ND		25.0	25.2		ug/L		101	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	23.2		ug/L		93	60 - 150	3	25
Vinyl acetate	ND		25.0	30.4		ug/L		122	23 - 150	7	30
Vinyl chloride	ND		25.0	22.1		ug/L		88	50 - 137	4	30
Xylenes, Total	ND		50.0	47.0		ug/L		94	70 - 133	1	20
Chloromethane	ND		25.0	22.9		ug/L		91	39 - 144	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-239547/1-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
1,2-Dichlorobenzene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
1,4-Dichlorobenzene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
2,4,5-Trichlorophenol	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2,4,6-Trichlorophenol	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
2,4-Dichlorophenol	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2,4-Dimethylphenol	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2,4-Dinitrophenol	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2,4-Dinitrotoluene	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2,6-Dinitrotoluene	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2-Chloronaphthalene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
2-Chlorophenol	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
2-Methylnaphthalene	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
2-Methylphenol	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2-Nitroaniline	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
2-Nitrophenol	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
3,3'-Dichlorobenzidine	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
3-Methylphenol + 4-Methylphenol	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
3-Nitroaniline	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
4,6-Dinitro-2-methylphenol	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
4-Bromophenyl phenyl ether	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
4-Chloro-3-methylphenol	ND		2.0	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
4-Chloroaniline	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
4-Chlorophenyl phenyl ether	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
4-Nitroaniline	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
4-Nitrophenol	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Acenaphthene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Acenaphthylene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Aniline	ND		10	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Anthracene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzidine	ND		10	5.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzo[a]anthracene	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzo[a]pyrene	ND		2.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzo[b]fluoranthene	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzo[g,h,i]perylene	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzo[k]fluoranthene	ND		0.50	0.25	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzoic acid	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Benzyl alcohol	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
bis (2-chloroisopropyl) ether	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Bis(2-chloroethoxy)methane	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Bis(2-chloroethyl)ether	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Butyl benzyl phthalate	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Chrysene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Dibenz(a,h)anthracene	0.263	J	0.50	0.25	ug/L		02/27/15 18:59	03/07/15 09:39	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-239547/1-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Diethyl phthalate	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Dimethyl phthalate	ND		0.50	0.25	ug/L		02/27/15 18:59	03/07/15 09:39	1
Di-n-butyl phthalate	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Di-n-octyl phthalate	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Fluoranthene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Fluorene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Hexachlorobenzene	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Hexachlorobutadiene	ND		2.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Hexachlorocyclopentadiene	ND		5.0	2.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Hexachloroethane	ND		3.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Indeno[1,2,3-cd]pyrene	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Isophorone	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Naphthalene	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Nitrobenzene	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
N-Nitrosodimethylamine	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
N-Nitrosodi-n-propylamine	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
N-Nitrosodiphenylamine	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Pentachlorophenol	ND		2.0	1.0	ug/L		02/27/15 18:59	03/07/15 09:39	1
Phenanthrene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1
Phenol	ND		1.0	0.50	ug/L		02/27/15 18:59	03/07/15 09:39	1
Pyrene	ND		0.50	0.20	ug/L		02/27/15 18:59	03/07/15 09:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*103*		*40 - 120*	*02/27/15 18:59*	*03/07/15 09:39*	*1*
2-Fluorobiphenyl	*77*		*50 - 120*	*02/27/15 18:59*	*03/07/15 09:39*	*1*
2-Fluorophenol	*54*		*30 - 120*	*02/27/15 18:59*	*03/07/15 09:39*	*1*
Nitrobenzene-d5	*73*		*45 - 120*	*02/27/15 18:59*	*03/07/15 09:39*	*1*
Phenol-d6	*60*		*35 - 120*	*02/27/15 18:59*	*03/07/15 09:39*	*1*
Terphenyl-d14	*98*		*37 - 144*	*02/27/15 18:59*	*03/07/15 09:39*	*1*

Lab Sample ID: LCS 440-239547/2-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	6.11		ug/L		61	44 - 142
1,2-Dichlorobenzene	10.0	6.10		ug/L		61	32 - 129
1,2-Diphenylhydrazine(as Azobenzene)	10.0	8.42		ug/L		84	47 - 116
1,3-Dichlorobenzene	10.0	5.99		ug/L		60	10 - 150
1,4-Dichlorobenzene	10.0	6.09		ug/L		61	20 - 124
2,4,5-Trichlorophenol	10.0	7.85		ug/L		78	49 - 111
2,4,6-Trichlorophenol	10.0	7.54		ug/L		75	37 - 144
2,4-Dichlorophenol	10.0	6.60		ug/L		66	39 - 135
2,4-Dimethylphenol	10.0	6.49		ug/L		65	32 - 119
2,4-Dinitrophenol	10.0	8.09		ug/L		81	50 - 150
2,6-Dinitrotoluene	10.0	8.54		ug/L		85	50 - 150

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-239547/2-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	10.0	7.39		ug/L		74	60 - 118
2-Chlorophenol	10.0	6.02		ug/L		60	23 - 134
2-Methylnaphthalene	10.0	6.63		ug/L		66	47 - 101
2-Methylphenol	10.0	6.46		ug/L		65	29 - 122
2-Nitroaniline	10.0	8.70		ug/L		87	47 - 115
2-Nitrophenol	10.0	6.54		ug/L		65	29 - 150
3,3'-Dichlorobenzidine	10.0	5.48		ug/L		55	10 - 150
3-Methylphenol + 4-Methylphenol	10.0	7.45		ug/L		74	40 - 115
3-Nitroaniline	10.0	10.9		ug/L		109	43 - 114
4,6-Dinitro-2-methylphenol	10.0	8.17		ug/L		82	10 - 150
4-Bromophenyl phenyl ether	10.0	8.03		ug/L		80	53 - 127
4-Chloro-3-methylphenol	10.0	7.75		ug/L		77	22 - 147
4-Chloroaniline	10.0	9.70		ug/L		97	31 - 117
4-Chlorophenyl phenyl ether	10.0	8.14		ug/L		81	25 - 150
4-Nitroaniline	10.0	9.91		ug/L		99	45 - 119
4-Nitrophenol	10.0	9.61		ug/L		96	10 - 132
Acenaphthene	10.0	7.69		ug/L		77	47 - 145
Acenaphthylene	10.0	7.33		ug/L		73	33 - 145
Aniline	10.0	7.94	J	ug/L		79	34 - 110
Anthracene	10.0	8.44		ug/L		84	27 - 133
Benzidine	10.0	ND		ug/L		28	5 - 66
Benzo[a]anthracene	10.0	9.83		ug/L		98	33 - 143
Benzo[a]pyrene	10.0	8.67		ug/L		87	17 - 150
Benzo[b]fluoranthene	10.0	10.2		ug/L		102	24 - 150
Benzo[g,h,i]perylene	10.0	8.70		ug/L		87	10 - 150
Benzo[k]fluoranthene	10.0	10.0		ug/L		100	11 - 150
Benzoic acid	10.0	6.31		ug/L		63	22 - 139
Benzyl alcohol	10.0	6.53		ug/L		65	43 - 115
bis (2-chloroisopropyl) ether	10.0	6.38		ug/L		64	47 - 103
Bis(2-chloroethoxy)methane	10.0	7.45		ug/L		74	33 - 150
Bis(2-chloroethyl)ether	10.0	6.01		ug/L		60	12 - 150
Bis(2-ethylhexyl) phthalate	10.0	9.67		ug/L		97	10 - 150
Butyl benzyl phthalate	10.0	10.4		ug/L		104	10 - 150
Chrysene	10.0	9.51		ug/L		95	17 - 150
Dibenz(a,h)anthracene	10.0	8.62		ug/L		86	10 - 150
Dibenzofuran	10.0	7.77		ug/L		78	51 - 109
Diethyl phthalate	10.0	8.81		ug/L		88	10 - 114
Dimethyl phthalate	10.0	8.72		ug/L		87	10 - 112
Di-n-butyl phthalate	10.0	10.8		ug/L		108	10 - 118
Di-n-octyl phthalate	10.0	9.40		ug/L		94	10 - 146
Fluoranthene	10.0	10.1		ug/L		101	26 - 137
Fluorene	10.0	8.22		ug/L		82	59 - 121
Hexachlorobenzene	10.0	8.12		ug/L		81	10 - 150
Hexachlorobutadiene	10.0	5.73		ug/L		57	24 - 116
Hexachlorocyclopentadiene	10.0	3.83	J	ug/L		38	10 - 67
Hexachloroethane	10.0	5.61		ug/L		56	40 - 113
Indeno[1,2,3-cd]pyrene	10.0	8.80		ug/L		88	10 - 150
Isophorone	10.0	8.12		ug/L		81	21 - 150

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-239547/2-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	10.0	6.52		ug/L		65	21 - 133
Nitrobenzene	10.0	6.71		ug/L		67	35 - 150
N-Nitrosodimethylamine	10.0	6.18		ug/L		62	26 - 117
N-Nitrosodi-n-propylamine	10.0	7.30		ug/L		73	10 - 150
N-Nitrosodiphenylamine	10.0	7.78		ug/L		78	54 - 110
Pentachlorophenol	10.0	7.48		ug/L		75	14 - 150
Phenanthrene	10.0	8.75		ug/L		88	54 - 120
Phenol	10.0	6.00		ug/L		60	10 - 112
Pyrene	10.0	9.97		ug/L		100	52 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*79*		*40 - 120*
2-Fluorobiphenyl	*68*		*50 - 120*
2-Fluorophenol	*49*		*30 - 120*
Nitrobenzene-d5	*64*		*45 - 120*
Phenol-d6	*54*		*35 - 120*
Terphenyl-d14	*93*		*37 - 144*

Lab Sample ID: LCSD 440-239547/3-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 239547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	10.0	7.35		ug/L		74	44 - 142	19	35
1,2-Dichlorobenzene	10.0	7.30		ug/L		73	32 - 129	18	35
1,2-Diphenylhydrazine(as Azobenzene)	10.0	8.83		ug/L		88	47 - 116	5	35
1,3-Dichlorobenzene	10.0	7.08		ug/L		71	10 - 150	17	35
1,4-Dichlorobenzene	10.0	7.11		ug/L		71	20 - 124	15	35
2,4,5-Trichlorophenol	10.0	8.91		ug/L		89	49 - 111	13	35
2,4,6-Trichlorophenol	10.0	8.80		ug/L		88	37 - 144	15	35
2,4-Dichlorophenol	10.0	8.55		ug/L		86	39 - 135	26	35
2,4-Dimethylphenol	10.0	7.82		ug/L		78	32 - 119	18	35
2,4-Dinitrophenol	10.0	8.92		ug/L		89	50 - 150	10	35
2,6-Dinitrotoluene	10.0	9.33		ug/L		93	50 - 150	9	35
2-Chloronaphthalene	10.0	8.44		ug/L		84	60 - 118	13	35
2-Chlorophenol	10.0	7.83		ug/L		78	23 - 134	26	35
2-Methylnaphthalene	10.0	8.01		ug/L		80	47 - 101	19	35
2-Methylphenol	10.0	8.20		ug/L		82	29 - 122	24	35
2-Nitroaniline	10.0	9.62		ug/L		96	47 - 115	10	35
2-Nitrophenol	10.0	8.63		ug/L		86	29 - 150	28	35
3,3'-Dichlorobenzidine	10.0	5.67		ug/L		57	10 - 150	3	35
3-Methylphenol + 4-Methylphenol	10.0	9.37		ug/L		94	40 - 115	23	35
3-Nitroaniline	10.0	11.4		ug/L		114	43 - 114	5	35
4,6-Dinitro-2-methylphenol	10.0	9.21		ug/L		92	10 - 150	12	35
4-Bromophenyl phenyl ether	10.0	8.37		ug/L		84	53 - 127	4	35
4-Chloro-3-methylphenol	10.0	8.95		ug/L		89	22 - 147	14	35
4-Chloroaniline	10.0	10.5		ug/L		105	31 - 117	8	35

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-239547/3-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 239547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	10.0	8.55		ug/L		86	25 - 150	5	35
4-Nitroaniline	10.0	10.3		ug/L		103	45 - 119	4	35
4-Nitrophenol	10.0	10.2		ug/L		102	10 - 132	6	35
Acenaphthene	10.0	8.44		ug/L		84	47 - 145	9	35
Acenaphthylene	10.0	8.27		ug/L		83	33 - 145	12	35
Aniline	10.0	8.53	J	ug/L		85	34 - 110	7	35
Anthracene	10.0	8.70		ug/L		87	27 - 133	3	35
Benzidine	10.0	ND		ug/L		21	5 - 66	29	35
Benzo[a]anthracene	10.0	9.29		ug/L		93	33 - 143	6	35
Benzo[a]pyrene	10.0	8.62		ug/L		86	17 - 150	1	35
Benzo[b]fluoranthene	10.0	10.0		ug/L		100	24 - 150	2	35
Benzo[g,h,i]perylene	10.0	8.97		ug/L		90	10 - 150	3	35
Benzo[k]fluoranthene	10.0	9.38		ug/L		94	11 - 150	7	35
Benzoic acid	10.0	7.93		ug/L		79	22 - 139	23	35
Benzyl alcohol	10.0	7.79		ug/L		78	43 - 115	18	35
bis (2-chloroisopropyl) ether	10.0	7.76		ug/L		78	47 - 103	19	35
Bis(2-chloroethoxy)methane	10.0	8.94		ug/L		89	33 - 150	18	35
Bis(2-chloroethyl)ether	10.0	7.29		ug/L		73	12 - 150	19	35
Bis(2-ethylhexyl) phthalate	10.0	9.77		ug/L		98	10 - 150	1	35
Butyl benzyl phthalate	10.0	9.92		ug/L		99	10 - 150	5	35
Chrysene	10.0	9.05		ug/L		90	17 - 150	5	35
Dibenz(a,h)anthracene	10.0	9.14		ug/L		91	10 - 150	6	35
Dibenzofuran	10.0	8.68		ug/L		87	51 - 109	11	35
Diethyl phthalate	10.0	8.68		ug/L		87	10 - 114	1	35
Dimethyl phthalate	10.0	9.03		ug/L		90	10 - 112	3	35
Di-n-butyl phthalate	10.0	10.3		ug/L		103	10 - 118	5	35
Di-n-octyl phthalate	10.0	9.50		ug/L		95	10 - 146	1	35
Fluoranthene	10.0	10.1		ug/L		101	26 - 137	0	35
Fluorene	10.0	8.94		ug/L		89	59 - 121	8	35
Hexachlorobenzene	10.0	8.35		ug/L		84	10 - 150	3	35
Hexachlorobutadiene	10.0	6.93		ug/L		69	24 - 116	19	35
Hexachlorocyclopentadiene	10.0	4.50	J	ug/L		45	10 - 67	16	35
Hexachloroethane	10.0	6.62		ug/L		66	40 - 113	17	35
Indeno[1,2,3-cd]pyrene	10.0	8.86		ug/L		89	10 - 150	1	35
Isophorone	10.0	8.38		ug/L		84	21 - 150	3	35
Naphthalene	10.0	7.95		ug/L		79	21 - 133	20	35
Nitrobenzene	10.0	8.34		ug/L		83	35 - 150	22	35
N-Nitrosodimethylamine	10.0	7.90		ug/L		79	26 - 117	24	35
N-Nitrosodi-n-propylamine	10.0	8.53		ug/L		85	10 - 150	16	35
N-Nitrosodiphenylamine	10.0	8.16		ug/L		82	54 - 110	5	35
Pentachlorophenol	10.0	7.76		ug/L		78	14 - 150	4	35
Phenanthrene	10.0	8.93		ug/L		89	54 - 120	2	35
Phenol	10.0	8.01		ug/L		80	10 - 112	29	35
Pyrene	10.0	10.1		ug/L		101	52 - 115	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*83*		*40 - 120*
2-Fluorobiphenyl	*78*		*50 - 120*

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-239547/3-A
Matrix: Water
Analysis Batch: 241102

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 239547

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol	*67*		*30 - 120*
Nitrobenzene-d5	*78*		*45 - 120*
Phenol-d6	*74*		*35 - 120*
Terphenyl-d14	*92*		*37 - 144*

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 440-238982/35
Matrix: Water
Analysis Batch: 238982

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			02/26/15 18:05	1

Lab Sample ID: LCS 440-238982/36
Matrix: Water
Analysis Batch: 238982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	27.2		ug/L		109	85 - 115

Lab Sample ID: 440-102617-A-4 MS
Matrix: Water
Analysis Batch: 238982

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	26.4		ug/L		106	80 - 120

Lab Sample ID: 440-102617-A-4 MSD
Matrix: Water
Analysis Batch: 238982

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	26.5		ug/L		106	80 - 120	0	20

Lab Sample ID: MB 440-240596/24
Matrix: Water
Analysis Batch: 240596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			03/05/15 15:47	1

Lab Sample ID: MB 440-240596/3
Matrix: Water
Analysis Batch: 240596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		4.0	0.95	ug/L			03/05/15 08:52	1

Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: LCS 440-240596/2
Matrix: Water
Analysis Batch: 240596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	22.8		ug/L		91	85 - 115

Lab Sample ID: LCS 440-240596/25
Matrix: Water
Analysis Batch: 240596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	28.4		ug/L		114	85 - 115

Lab Sample ID: MRL 440-240596/5
Matrix: Water
Analysis Batch: 240596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	3.94	J	ug/L		99	75 - 125

Lab Sample ID: 440-102803-1 MS
Matrix: Water
Analysis Batch: 240596

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	22.1		ug/L		88	80 - 120

Lab Sample ID: 440-102803-1 MSD
Matrix: Water
Analysis Batch: 240596

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	22.3		ug/L		89	80 - 120	1	20

Lab Sample ID: 440-103461-B-1 MS
Matrix: Water
Analysis Batch: 240596

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	26.5		ug/L		106	80 - 120

Lab Sample ID: 440-103461-B-1 MSD
Matrix: Water
Analysis Batch: 240596

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	26.6		ug/L		106	80 - 120	0	20

GC/MS VOA

Analysis Batch: 239533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102803-1	MW-1	Total/NA	Water	624	
440-102803-1 MS	MW-1	Total/NA	Water	624	
440-102803-1 MSD	MW-1	Total/NA	Water	624	
440-102803-2	MW-2	Total/NA	Water	624	
440-102803-3	MW-3	Total/NA	Water	624	
440-102803-4	MW-4	Total/NA	Water	624	
440-102803-5	MW-5	Total/NA	Water	624	
LCS 440-239533/4	Lab Control Sample	Total/NA	Water	624	
MB 440-239533/3	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 239547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102803-1	MW-1	Total/NA	Water	625	
440-102803-2	MW-2	Total/NA	Water	625	
440-102803-3	MW-3	Total/NA	Water	625	
440-102803-4	MW-4	Total/NA	Water	625	
440-102803-5	MW-5	Total/NA	Water	625	
LCS 440-239547/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 440-239547/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 440-239547/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 240833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102803-1	MW-1	Total/NA	Water	625	239547
440-102803-2	MW-2	Total/NA	Water	625	239547
440-102803-3	MW-3	Total/NA	Water	625	239547
440-102803-4	MW-4	Total/NA	Water	625	239547
440-102803-5	MW-5	Total/NA	Water	625	239547

Analysis Batch: 241102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-239547/2-A	Lab Control Sample	Total/NA	Water	625	239547
LCSD 440-239547/3-A	Lab Control Sample Dup	Total/NA	Water	625	239547
MB 440-239547/1-A	Method Blank	Total/NA	Water	625	239547

HPLC/IC

Analysis Batch: 238982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102617-A-4 MS	Matrix Spike	Total/NA	Water	314.0	
440-102617-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	
440-102803-3	MW-3	Total/NA	Water	314.0	
440-102803-4	MW-4	Total/NA	Water	314.0	
440-102803-5	MW-5	Total/NA	Water	314.0	
LCS 440-238982/36	Lab Control Sample	Total/NA	Water	314.0	
MB 440-238982/35	Method Blank	Total/NA	Water	314.0	

HPLC/IC (Continued)

Analysis Batch: 240596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-102803-1	MW-1	Total/NA	Water	314.0	
440-102803-1 MS	MW-1	Total/NA	Water	314.0	
440-102803-1 MSD	MW-1	Total/NA	Water	314.0	
440-102803-2	MW-2	Total/NA	Water	314.0	
440-103461-B-1 MS	Matrix Spike	Total/NA	Water	314.0	
440-103461-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	314.0	
LCS 440-240596/2	Lab Control Sample	Total/NA	Water	314.0	
LCS 440-240596/25	Lab Control Sample	Total/NA	Water	314.0	
MB 440-240596/24	Method Blank	Total/NA	Water	314.0	
MB 440-240596/3	Method Blank	Total/NA	Water	314.0	
MRL 440-240596/5	Lab Control Sample	Total/NA	Water	314.0	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Golder Associates Inc.
Project/Site: RMC Malibu Phase II; ESA

TestAmerica Job ID: 440-102803-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
624		Water	1,1,1-Trichloroethane
624		Water	1,1,2,2-Tetrachloroethane
624		Water	1,1,2-Trichloroethane
624		Water	1,1-Dichloroethane
624		Water	1,1-Dichloroethene
624		Water	1,2-Dichlorobenzene
624		Water	1,2-Dichloroethane
624		Water	1,2-Dichloropropane
624		Water	1,3-Dichlorobenzene
624		Water	1,4-Dichlorobenzene
624		Water	2-Butanone (MEK)
624		Water	2-Hexanone
624		Water	4-Methyl-2-pentanone (MIBK)
624		Water	Acetone
624		Water	Benzene
624		Water	Bromodichloromethane
624		Water	Bromoform
624		Water	Bromomethane
624		Water	Carbon disulfide
624		Water	Carbon tetrachloride
624		Water	Chlorobenzene
624		Water	Chloroethane
624		Water	Chloroform
624		Water	Chloromethane
624		Water	cis-1,3-Dichloropropene
624		Water	Dibromochloromethane
624		Water	Ethylbenzene
624		Water	Methylene Chloride
624		Water	Styrene
624		Water	Tetrachloroethene
624		Water	Toluene
624		Water	trans-1,2-Dichloroethene
624		Water	trans-1,3-Dichloropropene
624		Water	Trichloroethene
624		Water	Trichlorofluoromethane
624		Water	Vinyl acetate
624		Water	Vinyl chloride
624		Water	Xylenes, Total
625	625	Water	1,2,4-Trichlorobenzene
625	625	Water	1,2-Dichlorobenzene
625	625	Water	1,2-Diphenylhydrazine(as Azobenzene)
625	625	Water	1,3-Dichlorobenzene
625	625	Water	1,4-Dichlorobenzene
625	625	Water	2,4,5-Trichlorophenol
625	625	Water	2,4,6-Trichlorophenol
625	625	Water	2,4-Dichlorophenol

Laboratory: TestAmerica Irvine (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	2,4-Dimethylphenol
625	625	Water	2,4-Dinitrophenol
625	625	Water	2,4-Dinitrotoluene
625	625	Water	2,6-Dinitrotoluene
625	625	Water	2-Chloronaphthalene
625	625	Water	2-Chlorophenol
625	625	Water	2-Methylnaphthalene
625	625	Water	2-Methylphenol
625	625	Water	2-Nitroaniline
625	625	Water	2-Nitrophenol
625	625	Water	3,3'-Dichlorobenzidine
625	625	Water	3-Methylphenol + 4-Methylphenol
625	625	Water	3-Nitroaniline
625	625	Water	4,6-Dinitro-2-methylphenol
625	625	Water	4-Bromophenyl phenyl ether
625	625	Water	4-Chloro-3-methylphenol
625	625	Water	4-Chloroaniline
625	625	Water	4-Chlorophenyl phenyl ether
625	625	Water	4-Nitroaniline
625	625	Water	4-Nitrophenol
625	625	Water	Acenaphthene
625	625	Water	Acenaphthylene
625	625	Water	Aniline
625	625	Water	Anthracene
625	625	Water	Benzidine
625	625	Water	Benzo[a]anthracene
625	625	Water	Benzo[a]pyrene
625	625	Water	Benzo[b]fluoranthene
625	625	Water	Benzo[g,h,i]perylene
625	625	Water	Benzo[k]fluoranthene
625	625	Water	Benzoic acid
625	625	Water	Benzyl alcohol
625	625	Water	bis (2-chloroisopropyl) ether
625	625	Water	Bis(2-chloroethoxy)methane
625	625	Water	Bis(2-chloroethyl)ether
625	625	Water	Bis(2-ethylhexyl) phthalate
625	625	Water	Butyl benzyl phthalate
625	625	Water	Chrysene
625	625	Water	Dibenz(a,h)anthracene
625	625	Water	Dibenzofuran
625	625	Water	Diethyl phthalate
625	625	Water	Dimethyl phthalate
625	625	Water	Di-n-butyl phthalate
625	625	Water	Di-n-octyl phthalate
625	625	Water	Fluoranthene
625	625	Water	Fluorene

Laboratory: TestAmerica Irvine (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
625	625	Water	Hexachlorobenzene
625	625	Water	Hexachlorobutadiene
625	625	Water	Hexachlorocyclopentadiene
625	625	Water	Hexachloroethane
625	625	Water	Indeno[1,2,3-cd]pyrene
625	625	Water	Isophorone
625	625	Water	Naphthalene
625	625	Water	Nitrobenzene
625	625	Water	N-Nitrosodimethylamine
625	625	Water	N-Nitrosodi-n-propylamine
625	625	Water	N-Nitrosodiphenylamine
625	625	Water	Pentachlorophenol
625	625	Water	Phenanthrene
625	625	Water	Phenol
625	625	Water	Pyrene

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

17461 Derian Ave., #100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

TAL-0013(1007)

Client Name/Address:
Golder Associates Inc
230 Commerce, Ste 200
Irvine, CA 92602

Project/PO Number:
RMC Malibu Phase II ESA
1521576

Project Manager:
Kristina Byrne

Phone Number:
714-508-4400

Sampler:
Kristina Byrne

Fax Number:
714-508-4401

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: VOCs 624	SVOCs 625	Perchlorate 314.1	Special Instructions
MW-1	Ground water	Amber 1L VOAs poly	3 3 1	2/23/2015	1150	ICE/HCL	X	X	X	
MW-2	↓	↓	↓	2/23/15	1315	↓	X	X	X	
MW-3					1410		X	X	X	
MW-4					1520		X	X	X	
MW-5	↓	↓	↓	↓	1550	↓	X	X	X	
Trip Blank	—	Glass VOAs	6							

440-102803 Chain of Custody

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)	
Kristina Byrne	2/25/15 0934			same day ____	72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____	5 days ____
				48 hours ____	normal X
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)	
		[illegible]	2-25-15 0934	intact ✓	on ice ✓

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

5.8/5.4 IR 5A

Login Sample Receipt Checklist

Client: Golder Associates Inc.

Job Number: 440-102803-1
SDG Number:

Login Number: 102803
List Number: 1
Creator: Kim, Guerry

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT D
SOIL VAPOR REPORT

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

February 24, 2015

Ms. Kristina Byrne
Golder Associates
230 Commerce, Suite 200
Irvine, CA 92602

Dear Ms. Byrne:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for Golder Associates on February 23, 2015. The study was performed at 24000 Civic Center Way, Malibu, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

Gas sampling was performed by hydraulically pushing soil gas probes to a depth of 5.0-15.0 feet below ground surface (bgs). An electric rotary hammer drill was used to drill a 1.0-inch diameter hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the probe and purged prior to sample collection. Vapor samples were obtained in SGE gas-tight syringes by drawing the sample through a luer-lock connection which connects the sampling probe and the vacuum pump. Samples were immediately injected into the gas chromatograph/purge and trap after collection. New tubing was used at each sampling point to prevent cross contamination.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Hewlett Packard model 5971 Mass Spectra Detector and Tekmar LSC 2000 Purge and Trap. An SGE capillary column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's 5971 MS and chromatographic data collection and handling system.

Quality Assurance

5-Point Calibration
The initial five point calibration consisted of 20, 50, 100, 200 and 500 ul injections of the calibration standard. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r^2 factor generated from this line was not greater than 0.990, an additional five point calibration would have been performed. Method reporting limits were calculated to be 0.01-1.0 micrograms per Liter (ug/L) for the individual compounds.

A daily calibration check and end of run calibration check was performed using a pre-mixed standard supplied by Scotty Analyzed Gases. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter (ng/ul) and 0.25 ng/ul.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	Tert-Butyl-Alcohol
Methyl-Tert-Butyl-Ether	Ethyl-Tert-Butyl-Ether	Diisopropylether
Tert-Amyl-Methyl-Ether	Isobutane	

Sample Replicates
A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Equipment Blanks
Blanks were run at the beginning of each workday and after calibrations. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas
A tracer gas was applied to the soil gas probes near each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas, found in common shaving cream. No Isobutane was found in any of the samples collected.

Purge Volume Test
"Purge volume" is the total internal volume of the sampling probe. Three separate purge volumes were tested: 1, 3, and 10 volumes. It was found that 3 volumes were best for this soil vapor survey.

Scope of Work

To achieve the objective of this investigation a total of 20 vapor samples were collected from 8 locations at the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Subsurface Conditions

Subsurface soil conditions at this site were predominately silty-sand and silty-clay from ground surface to 15.0 feet bgs. These soil conditions offered sampling flows at 0-20" water vacuum. Depth to groundwater was unknown at the time of the investigation.

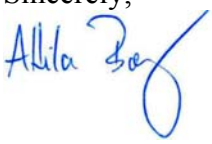
Results

During this vapor investigation six samples contained levels of Chloroform. Chloroform levels ranged from 3.21 ug/L at SV-5-5' to 17.06 ug/L at SV-2-11'. Additionally, SV-2-11' contained 0.11 ug/L of Tetrachloroethene (PCE). None of the other compounds listed in Table 1 above were detected above the listed reporting limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (877) 764-5427.

Sincerely,



Attila Baly
Project Manager

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 24000 Civic Center Way, Malibu, CA **Lab Name:** Optimal Technology **Date:** 2/23/15
Analyst: A. Baly **Collector:** A. Baly **Inst. ID:** HP-5890 Series II
Method: Modified EPA 8260B **Detector:** HP-5971 Mass Spectrometer **Page:** 1 of 3

SAMPLE ID	BLANK-1	SV-1-5' PT1V	SV-1-5' PT3V	SV-1-5' PT10V	SV-1-15'	SV-2-5'	SV-2-11' PT1V	SV-2-11' PT3V
Sampling Depth (Ft.)	N/A	5.0	5.0	5.0	15.0	5.0	11.0	11.0
Purge Volume (ml)	N/A	500	1,500	5,000	3,225	1,500	1,075	3,225
Vacuum (in. of Water)	N/A	0	0	0	0	0	0	0
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.00	ND	ND	ND	ND	ND	ND	**14.55**	**17.06**
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	0.10	ND	ND	ND	ND	ND	ND	**0.10**	**0.11**
1,1,1,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.40	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl Ether (DIPE)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Tert Butyl Ether	1.00	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Amyl Methyl Ether (TAME)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tertiary Butyl Alcohol	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit; PT3V = Purge Test Volume

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 24000 Civic Center Way, Malibu, CA
Lab Name: Optimal Technology
Date: 2/23/15
Analyst: A. Baly **Collector:** A. Baly
Inst. ID: HP-5890 Series II
Method: Modified EPA 8260B
Detector: HP-5971 Mass Spectrometer
Page: 2 of 3

SAMPLE ID	SV-2-11' PT10V	SV-3-5'	SV-3-10'	SV-4-5'	SV-4-13'	SV-5-5'	SV-5-15'	SV-6-5'
Sampling Depth (Ft.)	11.0	5.0	10.0	5.0	13.0	5.0	15.0	5.0
Purge Volume (ml)	10,750	1,500	3,225	1,500	3,225	1,500	3,225	1,500
Vacuum (in. of Water)	0	0	0	0	20	0	0	0
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.00	**16.34**	ND	**4.02**	ND	ND	**3.21**	**13.23**	ND
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	0.10	**0.10**	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.40	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl Ether (DIPE)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl Tert Butyl Ether	1.00	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tert-Amyl Methyl Ether (TAME)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tertiary Butyl Alcohol	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit; PT3V = Purge Test Volume

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 24000 Civic Center Way, Malibu, CA
Lab Name: Optimal Technology
Date: 2/23/15
Analyst: A. Baly **Collector:** A. Baly
Inst. ID: HP-5890 Series II
Method: Modified EPA 8260B
Detector: HP-5971 Mass Spectrometer
Page: 3 of 3

SAMPLE ID	SV-7-5'	SV-7-15'	SV-8-5'	SV-8-15'	SV-8-15' Dup			
Sampling Depth (Ft.)	5.0	15.0	5.0	15.0	15.0			
Purge Volume (ml)	1,500	3,225	1,500	3,225	3,225			
Vacuum (in. of Water)	0	0	0	0	0			
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000			
Dilution Factor	1	1	1	1	1			

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)			
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND			
Chloroethane	1.00	ND	ND	ND	ND	ND			
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND			
Freon 113	1.00	ND	ND	ND	ND	ND			
Methylene Chloride	1.00	ND	ND	ND	ND	ND			
1,1-Dichloroethane	1.00	ND	ND	ND	ND	ND			
Chloroform	1.00	ND	ND	ND	ND	ND			
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND			
Carbon Tetrachloride	0.02	ND	ND	ND	ND	ND			
1,2-Dichloroethane	0.04	ND	ND	ND	ND	ND			
Trichloroethene (TCE)	0.10	ND	ND	ND	ND	ND			
1,1,2-Trichloroethane	1.00	ND	ND	ND	ND	ND			
Tetrachloroethene (PCE)	0.10	ND	ND	ND	ND	ND			
1,1,1,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND			
1,1,2,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND			
Vinyl Chloride	0.01	ND	ND	ND	ND	ND			
Acetone	1.00	ND	ND	ND	ND	ND			
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND			
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND			
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND			
cis-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND			
Cyclohexane	1.00	ND	ND	ND	ND	ND			
Benzene	0.03	ND	ND	ND	ND	ND			
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND			
Toluene	1.00	ND	ND	ND	ND	ND			
Chlorobenzene	1.00	ND	ND	ND	ND	ND			
Ethylbenzene	0.40	ND	ND	ND	ND	ND			
m/p-Xylene	1.00	ND	ND	ND	ND	ND			
o-Xylene	1.00	ND	ND	ND	ND	ND			
Diisopropyl Ether (DIPE)	1.00	ND	ND	ND	ND	ND			
Ethyl Tert Butyl Ether	1.00	ND	ND	ND	ND	ND			
MTBE	1.00	ND	ND	ND	ND	ND			
Tert-Amyl Methyl Ether (TAME)	1.00	ND	ND	ND	ND	ND			
Tertiary Butyl Alcohol	1.00	ND	ND	ND	ND	ND			
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND			

Note: ND = Below Listed Reporting Limit

ATTACHMENT E
GROUNDWATER SAMPLING FORMS

WELL GAUGING DATA

Project # 150223-SA1 Date 2/23/15 Client Golder

Site Golder @ Malibu 2834 Civic Center Way, Malibu CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0945	4					39.83	52.73		
MW-2	0935	4					45.46	58.62		
MW-3	0930	4					37.34	53.62		
MW-4	0925	4					41.02	63.43		
MW-5	0920	4					44.04	63.40	↓	

WELL MONITORING DATA SHEET

Project #: 150223-JA1	Site: Golden @ Malibu
Sampler: JA	Date: 2/23/15
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 52.73	Depth to Water (DTW): 39.83
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water Column (12.90) x 0.20) + DTW]: 42.41	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; (2" Rediflo pump); Extraction Pump; Other ___

Sampling Method: Bailer; ~~Disposable Bailer~~ JA; (Extraction Port); Dedicated Tubing; (Other: New Tubing)

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

8.39 (Gals.) X 3 = 25.17 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
1050	71.6	6.50	7.38	29	0.07	-86.1	8.5	
1054	71.7	6.51	7.32	275	0.07	-88.0	12.75	Stopped pump due to drawdown
1130 ~~1058~~ JA	71.5	6.55	7.31	590	0.13	-75.7	17	Started pump to 1/2 GPM to stop drawdown
1138	72.9	6.52	7.20	284	0.07	-77.3	21.25	
1147	73.4	6.52	7.17	230	0.07	-77.8	25.5	

Did well dewater? Yes (No) Gallons actually evacuated: 25.5

Sampling Date: 2/23/15 Sampling Time: 1150 Depth to Water: 42.24

Sample I.D.: MW-1 Laboratory: Test America

Analyzed for: See COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 130223-JM	Site: Golden @ Malibu
Sampler: JB	Date: 2/23/15
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 58.62	Depth to Water (DTW): 45.46
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water (13.16) Column x 0.20) + DTW]: 48.09	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; 2" Rediflo pump; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other:_____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

8.55 (Gals.) X 3 = 25.65 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
1239	78.3	6.71	4.29	33	0.04	-96.5	8.75	
1248	78.3	6.71	4.26	26	0.04	-94.0	13	
1256	78.3	6.71	4.25	18	0.03	-93.4	17.25	
1305	78.3	6.70	4.25	10	0.03	-93.8	21.5	
1313	78.3	6.71	4.24	8	0.03	-93.7	25.75	

Did well dewater? Yes (No) Gallons actually evacuated: 25.75

Sampling Date: 2/23/15 Sampling Time: 1315 Depth to Water: 46.54

Sample I.D.: MW-2 Laboratory: Test America

Analyzed for: See COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 150223-JA1	Site: Golden @ Malibu
Sampler: JA	Date: 2/23/15
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 53.62	Depth to Water (DTW): 37.34
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water (16.28) Column x 0.20) + DTW]: 40.59	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; 2" ~~Rediflo~~ pump; Extraction Pump; Other ___

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: New Tubing

10.58 (Gals.) X 3 = 31.74 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
1347	72.7	7.56	1.21	9	0.03	-82.3	10.75	
1352	72.8	7.56	1.21	6	0.04	-79.7	16	
1357	72.8	7.56	1.21	5	0.03	-88.1	21.25	
1402	72.8	7.56	1.21	5	0.04	-91.2	26.5	
1408	72.9	7.55	1.21	5	0.03	-89.6	31.75	

Did well dewater? Yes (No) Gallons actually evacuated: 31.75

Sampling Date: 2/23/15 Sampling Time: 1410 Depth to Water: 37.60

Sample I.D.: MW-3 Laboratory: Test America

Analyzed for: See COC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 150223-JA1	Site: Golden @ Malibu
Sampler: JA	Date: 2/23/15
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 63.43	Depth to Water (DTW): 41.02
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water Column (22.41) x 0.20) + DTW]: 45.50	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; (2" Rediflo pump); Extraction Pump; Other_____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: New Tubing

14.56 (Gals.) X 3 = 43.68 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
1450	71.1	7.14	2.26	21	0.09	-72.7	14.75	
1457	71.1	7.10	2.20	12	0.08	-18.2	22.	
1504	70.9	7.14	2.15	9	0.04	-72.7	29.25	
1511	70.9	7.14	2.15	9	0.04	-72.7	36.5	
1518	70.7	7.13	2.18	8	0.04	-72.0	43.75	

Did well dewater? Yes (No) Gallons actually evacuated: 43.75

Sampling Date: 2/23/15 Sampling Time: 1520 Depth to Water: 43.53

Sample I.D.: MW-4 Laboratory: Test America

Analyzed for: Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 150223-SA1	Site: Golden @ Malibu
Sampler: JA	Date: 2/23/15
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 63.40	Depth to Water (DTW): ~~55.14~~ 44.04
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water Column (19.36) x 0.20) + DTW]: 47.91	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; 2" Rediflo pump; Extraction Pump; Other ___

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: ___

12.58 (Gals.) X 3 = 37.74 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
1534	78.9	6.91	2.63	23	0.03	-70.4	13	
1537	78.9	6.91	2.64	13	0.03	-26.6	19.25	
1540	79.0	6.92	2.63	7	0.03	-15.6	25.5	
1544	79.0	6.91	2.65	6	0.03	-7.7	31.75	
1547	79.0	6.92	2.68	7	0.03	-4.5	38	

Did well dewater? Yes (No) Gallons actually evacuated: 38

Sampling Date: 2/23/15 Sampling Time: 1550 Depth to Water: 45.59

Sample I.D.: MW-5 Laboratory: TestAmerica

Analyzed for: 5010 CoC Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELLHEAD INSPECTION CHECKLIST

Page ____ of ____

Client Goldar Date 2/23/15

Site Address 2834 Civic Center Dr Malibu CA

Job Number 150223-JA1 Technician JA

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X	X	✓	X	X	X	X			
MW-2	X	X	✓	X	X	X	X			
MW-3	✓	✓	✓	X	X	X	X			
MW-4	✓	✓	✓	X	X	X	X			
MW-5	X	X	✓	X	X	X	X			

NOTES: MW-1 1/2 Bolts missing 1/2 tabs stripped, MW-2 1/2 Bolts missing 1/2 tabs stripped, MW-5 2/2 Bolts Missing

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Golder @ Libby				PROJECT NUMBER 150223-JA 1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI PROPlus	12H100513 ~~12H10038?JA~~	2/23/15 1000	pH 7, 4 cond 3900	pH 7.11, 4.05, 9.47 cond 3900	YES	17.7°C	JA
↓	↓	2/23/15 1010	ORP 241 DO 100%	ORP 241.7 DO 98.7%	YES	17.6°C	JA

SPH/Purge Water Drum Log Sheet

Site Address: 2834 Civic center Way Milton CA

STATUS OF DRUM(S) UPON ARRIVAL						
Date	2/23/15					
Number of drum(s) empty:	0					
Number of drum(s) 1/4 full:	0					
Number of drum(s) 1/2 full:	0					
Number of drum(s) 3/4 full:	0					
Number of drum(s) full:	0					
Total drum(s) on site:	0					
Are the drum(s) properly labeled?	NA					
If any drum(s) are partially or totally filled, what is the first use date:	NA					

If you add any product to an empty or partially filled drum, make sure the drum has at least 20 gals. of water in it first. Just offload purgewater into the drum, or DI water.
The drum MUST be steel AND labeled with the appropriate label.

STATUS OF DRUM(S) UPON DEPARTURE						
Date	2/23/15					
Number of drums empty:	0					
Number of drum(s) 1/4 full:	0					
Number of drum(s) 1/2 full:	0					
Number of drum(s) 3/4 full:	1					
Number of drum(s) full:	2					
Total drum(s) on site:	3					
Are the drum(s) properly labeled?	YES					

LOCATION OF DRUM(S)
Describe location of drum(s): City Yard

FINAL STATUS						
Number of new drum(s) left on site this event	3					
Date of inspection:	2/23/15					
Logged by BTS Field Tech:	JA					
Office reviewed by:						

Please Notify Properity Owners of any Drums left onsite