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November 6, 2009

Reference No. 521000

Ms. Barbara Jakub
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Dear Ms. Jakub:

Re: Groundwater Monitoring Report - Second Half 2009
1137-1167 65th Street
Oakland, California 94608
Agency Case No. RO0000082

On behalf of Mr. John Nady (Nady), Conestoga-Rovers & Associates (CRA) is submitting this *Groundwater Monitoring Report –Second Half 2009*. Presented in this report is a summary of the field activities and results from the second half 2009 groundwater monitoring events. In addition, this report contains recommendations for first half 2010 activities.

If you have any questions, please call me at (510) 420-3307.

Yours truly,
CONESTOGA-ROVERS & ASSOCIATES

Mark Jonas, P.G.

MJ/aa/6
Encl.

c.c.: Mr. Frederic Schrag *(electronic copy only)*
Mr. Dennis Parfitt

GROUNDWATER MONITORING REPORT – SECOND HALF 2009

1137-1167 65th STREET
OAKLAND, CALIFORNIA

AGENCY CASE NO. **RO0000082**

Prepared by:
Conestoga-Rovers & Associates

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TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
1.1	SITE INFORMATION	1
2.0	SITE ACTIVITIES AND RESULTS	1
2.1	CURRENT ACTIVITIES	1
2.1.1	WATER LEVEL MEASUREMENTS	2
2.1.2	GROUNDWATER SAMPLING	2
2.1.2	WASTE DISPOSAL	3
2.2	CURRENT RESULTS	4
2.2.1	GROUNDWATER FLOW DIRECTION AND GRADIENT	4
2.2.2	CHEMICALS DETECTED IN A-ZONE GROUNDWATER	5
2.2.3	CHEMICALS DETECTED IN B-ZONE GROUNDWATER	6
2.2.4	CHEMICALS DETECTED IN C-ZONE GROUNDWATER	7
2.2.5	GEOTRACKER SUBMITTALS	8
2.3	PROPOSED ACTIVITIES FOR 2010	8
2.3.1	GROUNDWATER MONITORING	8
2.3.2	SITE CHARACTERIZATION	8

LIST OF FIGURES
(Following Text)

FIGURE 1	VICINITY MAP
FIGURE 2	GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS – A ZONE
FIGURE 3	GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS – B ZONE
FIGURE 4	GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS – C ZONE

LIST OF TABLES

TABLE 1	WELL CONSTRUCTION DETAILS
TABLE 2	MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
TABLE 3	MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: HALOGENATED VOLATILE ORGANIC COMPOUNDS
TABLE 4	MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: EXPANDED ANALYTES (SEPTEMBER 21-22/2009)

LIST OF APPENDICES

APPENDIX A	STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING
APPENDIX B	CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION
APPENDIX C	FIELD DATA SHEETS

1.0 INTRODUCTION

On behalf of the Mr. John Nady, Trustee of the Nady Trust (Nady), Conestoga-Rovers & Associates (CRA) is submitting this *Groundwater Monitoring Report –Second Half 2009*. This report describes the second half 2009 groundwater monitoring activities performed at 1137-1167 65th Street, Oakland, California (Figure 1).

This groundwater monitoring event was conducted at the direction of the Alameda County Health Care Services Agency, Environmental Health Division (ACEH). This report presents a summary of the monitoring activities and results from the second half 2009 monitoring event. In addition, this report contains recommendations for first half 2010 activities.

1.1 SITE INFORMATION

Site Address	1137-1167 65th Street, Oakland, CA
Site Use	Commercial
Client and Contact	John Nady, Trustee of the Nady Trust Contact: Frederic Schrag
Consultant and Contact Person	CRA, Mark Jonas, P.G.
Lead Agency and Contact Person	Alameda County Environmental Health Ms. Barbara Jakub
Fuel Leak Case No.	RO0000082

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT ACTIVITIES

CRA contracted Muskan Environmental Sampling (MES) to perform semi-annual groundwater monitoring activities at the site. On September 21-22, 2009, MES measured groundwater levels in all 17 monitoring wells and collected groundwater samples from all wells. As approved by the ACEH in a letter dated September 3, 2008, CRA implemented the proposed groundwater work plan outlined in CRA's *Groundwater Monitoring Work Plan*, dated July 1, 2008. In August 2009 additional monitoring wells MW-3B, MW-7B, MW-3C, and MW-7C were installed and sampled during this sampling event.

As noted in the *Groundwater Monitoring Work Plan* and approved by Ms. Barbra Jakub of ACEH, the sampling and analysis was as follows:

- Total petroleum hydrocarbons as diesel (TPHd), gasoline (TPHg), motor oil (TPHmo), and Stoddard solvent (TPHss); and benzene, toluene, ethylbenzene, and total xylenes (BTEX) are analyzed in groundwater samples collected from monitoring wells MW-1A, MW-2A, MW-3A, MW3B, MW3C, MW-4A, MW-6A, MW-6B, MW-7A, MW-7B, and MW-7C.
- Halogenated volatile organic compounds (HVOCs) are analyzed in groundwater samples collected from monitoring wells MW-1A, MW-1B, MW-3A, MW-3B, MW-3C, MW-6A, MW-6B, MW-6C, MW-7A, MW-7B, and MW-7C.
- Fuel fingerprint analysis was conducted for groundwater samples collected from monitoring wells MW-1A, MW-2A, MW-3A, MW-3B, MW-3C, MW-4A, MW-6A, MW-6B, MW-7A, MW-7B, and MW-7C.
- Bio-attenuation parameter analysis was conducted for groundwater samples collected from wells MW-1A, MW-1B, MW-1C, MW-2A, MW-3A, MW-3B, MW-3C, MW-4A, MW-4B, MW-4C, MW-5B, MW-6A, MW-6B, MW-6C, MW-7A, MW-7B, and MW-7C.
- Oxygen isotope analysis was conducted for groundwater samples collected from wells MW-1A, MW-1B, MW-1C, MW-4A, MW-4B, MW-4C, MW-4C, MW-6A, MW-6B, and MW-6C.

2.1.1 WATER LEVEL MEASUREMENTS

Depth to groundwater measurements were recorded to the nearest 0.01-foot, relative to a previously established reference elevation. Measurements were collected using an electric, conductance-actuated well sounder. Copies of the field data sheets are included as Appendix C. The groundwater level measurement data are summarized in Table 2.

2.1.2 GROUNDWATER SAMPLING

MES collected groundwater samples from wells MW-1A, MW-1B, MW-1C, MW-2A, MW-3A, MW-3B, MW-3C, MW-4A, MW-4B, MW-4C, MW-5B, MW-6A, MW-6B, MW-6C, MW-7A, MW-7B, and MW-7C. Prior to sampling, the wells were purged to remove standing water in the well casing and annulus to promote inflow of representative groundwater from the surrounding formation. Each well was purged using a new disposable bailer, pre-cleaned poly vinyl chloride (PVC) bailer, or

disposable tubing with a check valve. Field measurements of pH, specific conductance, and temperature of purged groundwater were measured after extraction of each successive casing volume. Casing volumes were calculated based on well diameter and height of the water column. Typically, purging continued until at least three casing volumes are extracted and consecutive pH, specific conductance, and temperature measurements appeared to stabilize. Water quality field measurements, purge volumes and sample collection data were recorded on field sampling data forms (Appendix C).

To minimize the potential for cross-contamination, groundwater monitoring equipment was decontaminated prior to being used in the first monitoring well and between successive wells. Groundwater samples were collected from each of the wells using clean disposable bailers or disposable tubing with a check valve. The samples were decanted from the bailers into 1 liter (L) amber glass containers, 250 milliliter (mL) plastic, 500 mL plastic, 32 oz plastic, and/or 40 mL glass volatile organic analysis (VOA) vials, all of which were supplied by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. Sample containers were labeled and placed in a cooler chilled with water-based ice, for temporary storage and transport. A chain-of-custody record was maintained (Appendix B).

Groundwater samples were analyzed for TPHd, TPHg, TPHmo, and TPHss by modified United States Environmental Protection Agency (EPA) Method SW8015Bm. BTEX were analyzed by EPA Method SW8021B. Samples were also analyzed for HVOCs by EPA Method SW8260B, but only reported for the EPA Method 8010 basic target list. Samples marked for TPHd and TPHmo analysis were subjected to silica gel cleanup prior to analysis. TPH fuel fingerprints were analyzed by EPA Method SW8015B. Bioattenuation parameters were tested by E300.1, SM2320B, E200.7, E350.1, SM5210B, E410.4, E415.3, RSK 174/175, E376.2, E160.1, SW3510C/3630C, and H_2O Isotope Analysis by Laser Spectroscopy. The laboratory analytical reports are included in Appendix B. Analytical results are summarized on Figures 2, 3, and 4 and presented in Tables 2 and 3.

2.1.2 WASTE DISPOSAL

Approximately 90 gallons of purge water were generated during this monitoring event. This waste water is stored in sealed Department of Transportation (DOT) approved 55-gallon drums and temporarily left on site for eventual transport and disposal.

2.2 CURRENT RESULTS

A-Zone

Groundwater Flow Direction	Southwest
Hydraulic Gradient	0.029
Range of Measured Water Depth from Top of Casing in Monitoring Wells	2.57 to 5.68 feet
Were Measureable Separate Phase Hydrocarbons Observed	No

B-Zone

Groundwater Flow Direction	Southwest
Hydraulic Gradient	0.022
Range of Measured Water Depth from Top of Casing in Monitoring Wells	5.20 to 9.32 feet
Were Measureable Separate Phase Hydrocarbons Observed	No

C-Zone

Groundwater Flow Direction	Southwest
Hydraulic Gradient	0.04
Range of Measured Water Depth from Top of Casing in Monitoring Wells	8.42 to 11.48 feet
Were Measureable Separate Phase Hydrocarbons Observed	No

2.2.1 GROUNDWATER FLOW DIRECTION AND GRADIENT

Depth-to-water measurements collected from all wells on September 21-22, 2009 ranged from 2.57 to 11.48 feet (ft) below top of casing (TOC). Groundwater elevations were calculated by subtracting the depth-to-water measurements from the surveyed TOC elevations. The groundwater elevations for A, B, and C water-bearing zones were each plotted and contoured on Figures 2, 3, and 4, respectively.

The A-zone is defined as the first encountered groundwater bearing zone from approximately 3.5 feet below ground surface (ft bgs) to 12 ft bgs. A-zone monitoring wells are MW-1A, MW-2A, MW-3A, MW-4A, MW-6A, and MW-7A. The groundwater flow direction in the A-zone was southwest with a gradient of approximately 0.029 ft/ft (Figure 2). The B-zone is defined as the second encountered groundwater bearing zone from approximately 13 ft bgs to 24 ft bgs. B-zone monitoring wells are MW-1B, MW-3B, MW-4B, MW-5B, MW-6B, and MW-7B. The groundwater flow direction in the B-zone was southwest with a gradient of approximately 0.022 ft/ft (Figure 3). The C-zone is defined as the third encountered groundwater bearing zone from approximately 25 ft bgs to 46 ft bgs. C-zone monitoring wells are MW-1C, MW-3C, MW-4C, MW-6C, and MW-7C. The groundwater flow direction in the C-zone was southwest with a gradient of approximately 0.004 ft/ft (Figure 4).

Rose diagrams depicting historical groundwater flow directions for the A, B, and C-zones are presented on the figures. The groundwater flow direction and gradient in the A-zone, B-zone, and C-zone are generally consistent with historical results. Depth-to-water and groundwater elevation data are presented in Tables 2 and 3.

2.2.2 CHEMICALS DETECTED IN A-ZONE GROUNDWATER

During this monitoring event, groundwater samples from A-zone monitoring wells MW-1A, MW-2A, MW-3A, MW-4A, MW-6A, and MW-7A were analyzed for petroleum hydrocarbons and fuel fingerprinting. Groundwater from A-zone monitoring wells MW-1A, MW-3A, MW-6A, and MW-7A were analyzed for HVOCs.

Petroleum hydrocarbons were detected in all six A-zone monitoring wells sampled. TPHd concentrations ranged from 66 (MW-4A) to 84,000 micrograms per liter (µg/L) (MW-7A). TPHg concentrations ranged from 92 µg/L (MW-2A) to 7,500 µg/L (MW-3A). TPHmo was only detected above the laboratory reporting limit in wells MW-3A and MW-6A at 1,300 µg/L, and 300 µg/L, respectively. TPHss was not detected in well MW-4A at concentrations above laboratory detection limits. TPHss concentrations were detected in the remaining sampled wells ranging from 83 µg/L (MW-2A) to 11,000 µg/L (MW-3A).

Benzene was only detected in well MW-3A at a concentration of 5.8 µg/L. Toluene was detected in wells MW-2A MW-3A, and MW-4A at concentrations ranging from 0.83 µg/L (MW-4A) to 7.5 µg/L (MW-3A). Ethylbenzene was not detected above laboratory detection limits in any well. Xylenes were only detected in well MW-4A at a concentration of 1.9 µg/L.

Fuel fingerprint analysis indicated that samples taken from wells MW-1A, MW-2A, MW-3A, MW-6A, and MW-7A exhibited significant hydrocarbon pattern that either resembled Stoddard solvent or were within the Stoddard solvent range.

HVOCs were detected in four of the A-zone monitoring wells sampled. The HVOC detections were as follows:

- MW-1A: tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE), at concentrations of 5.7, 2.2, and 9.2 μg/L, respectively.
- MW-3A: Chlorobenzene at a concentration of 82 μg/L.
- MW-6A: Chlorobenzene and chloroethane at concentrations of 0.93, and 5.2 μg/L, respectively.
- MW-7A: Chlorobenzene at a concentration of 0.80 μg/L.

A-zone groundwater analytical data and water level data are presented in Tables 2, 3 and 4, and summarized on Figure 2.

2.2.3 CHEMICALS DETECTED IN B-ZONE GROUNDWATER

During this monitoring event, groundwater samples from B-zone monitoring wells MW-3B, MW-6B, and MW-7B were analyzed for petroleum hydrocarbons by EPA Methods SW8015C and SW8021B, and wells MW-1B, MW-3B, MW-6B, and MW-7B were analyzed for HVOCs.

- TPHd, TPHg, TPHss nor HVOCs were detected above laboratory detection limits in well MW-3B.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected in wells MW-3B, nor MW-6B at concentrations above laboratory detection limits.
- TPHd was detected in wells MW-6B and MW-7B at concentrations of 15,000 and 6,300 μg/L, respectively.
- TPHg was detected in wells MW-6B and MW-7B at concentrations of 2,200 and 1,300 μg/L, respectively.
- TPHmo was detected in well MW-6B at a concentration of 610 μg/L.
- TPHss were detected in wells MW-6B and MW-7B at concentrations of 2,900 and 1,700 μg/L, respectively.

- Xylenes were detected in well MW-7B at a concentration of 2.3 µg/L.
- The following HVOCs were detected in well MW-1B: cis-1,2-DCE (12 µg/L) 1,1-DCA (11 µg/L), and 1,2-DCA (8.0 µg/L).
- Cis-1,2-DCE was detected in well MW-6B at a concentration of 1.40 µg/L.
- Chlorobenzene was detected in well MW-7B at a concentration of 0.82 µg/L.

Fuel fingerprint analysis indicated that samples taken from wells MW-6B and MW-7B exhibited significant hydrocarbon pattern that either resembled Stoddard solvent or were within the Stoddard solvent range. The sampled collected from well MW-3B exhibited no detectable pattern.

B-zone groundwater analytical data and water level data are presented in Tables 2, 3, and 4 and summarized on Figure 3.

2.2.4 CHEMICALS DETECTED IN C-ZONE GROUNDWATER

During this monitoring event, groundwater samples from C-zone monitoring wells MW-3C and MW-7C were analyzed for petroleum hydrocarbons by EPA Methods SW8015C and SW8021B, and wells MW-3C, MW-6C, and MW-7C were analyzed for HVOCs.

- TPHd at a concentration of 79 µg/L in well MW-3C. TPHg, TPHss, and TPHmo were not detected above laboratory detection limits in MW-3C.
- TPHd, TPHg, and TPHss were detected in well MW-7C at concentrations of 1,900, 1,600, and 2,300 µg/L, respectively. TPHmo was not detected above laboratory detection limits in well MW-7C.
- BTEX was not detected above laboratory detection limits in wells MW-3C.
- Xylenes were detected in well MW-7C at a concentration of 2.0 µg/L.
- HVOCs were not detected above laboratory detection limits in well MW-3C.
- The following HVOCs were detected in well MW-6C: PCE (3.1 µg/L), TCE (3.4 µg/L), Cis-1,2-DCE (17 µg/L), 1,1-DCA (0.56 µg/L), and vinyl chloride (1.3 µg/L).
- Chlorobenzene and 1,2-Dichlorobenzene were detected in well MW-7C: at concentrations of 2.8 and 1.1 µg/L, respectively.

C-zone groundwater analytical data and water level data are presented in Tables 2, 3, and 4 and summarized on Figure 4.

2.2.5 GEOTRACKER SUBMITTALS

CRA uploaded the second half quarter 2009 groundwater depth data, analytical results, and this report to the State's GeoTracker database on behalf of Nady.

2.3 PROPOSED ACTIVITIES FOR 2010

2.3.1 GROUNDWATER MONITORING

A semi-annual groundwater monitoring event will occur during the first quarter 2010. A report will be prepared detailing the activities and findings of the first half 2010 event will to be submitted to ACEH. Groundwater analytical, well gauging data and groundwater monitoring report will be uploaded to GeoTracker. The first half 2010 groundwater monitoring report will be submitted via ACEH's file transfer protocol (ftp) site and notification will be sent to Ms. Jakub by e-mail.

On September 21, 2009 groundwater data loggers were installed in monitoring wells MW-1A, MW-1B, and MW-1C. Results will be presented in the upcoming monitoring report.

2.3.2 SITE CHARACTERIZATION

As approved by the ACEH in a letter dated September 3, 2008, CRA will implemented the proposed soil, groundwater, and soil vapor investigation presented in CRA's *Additional Site Characterization Work Plan*, dated July 1, 2008, with conditional approval by ACEH. The work was conducted from August 10, 2009 to August 20, 2009. The collection of soil vapor samples were conducted in tandem with the regularly scheduled bi-annual groundwater sampling which as conducted on September 21-22, 2009. The results of the investigation can be found in CRA's *Additional Site Characterization Report* report.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Calvin Hee

Mark Jonas, P.G.

To the best of my knowledge, I have no argument or disagreement with the contents of this report.

Nady Trust U/D/T dated 1/21/1997

John Nady, Trustee

FIGURES

12/19/02

H:\SB-2004\NADY\FIGURES\VICINITY-MAP.AI

FIGURE 1

0 1/8 1/4 1/2 1

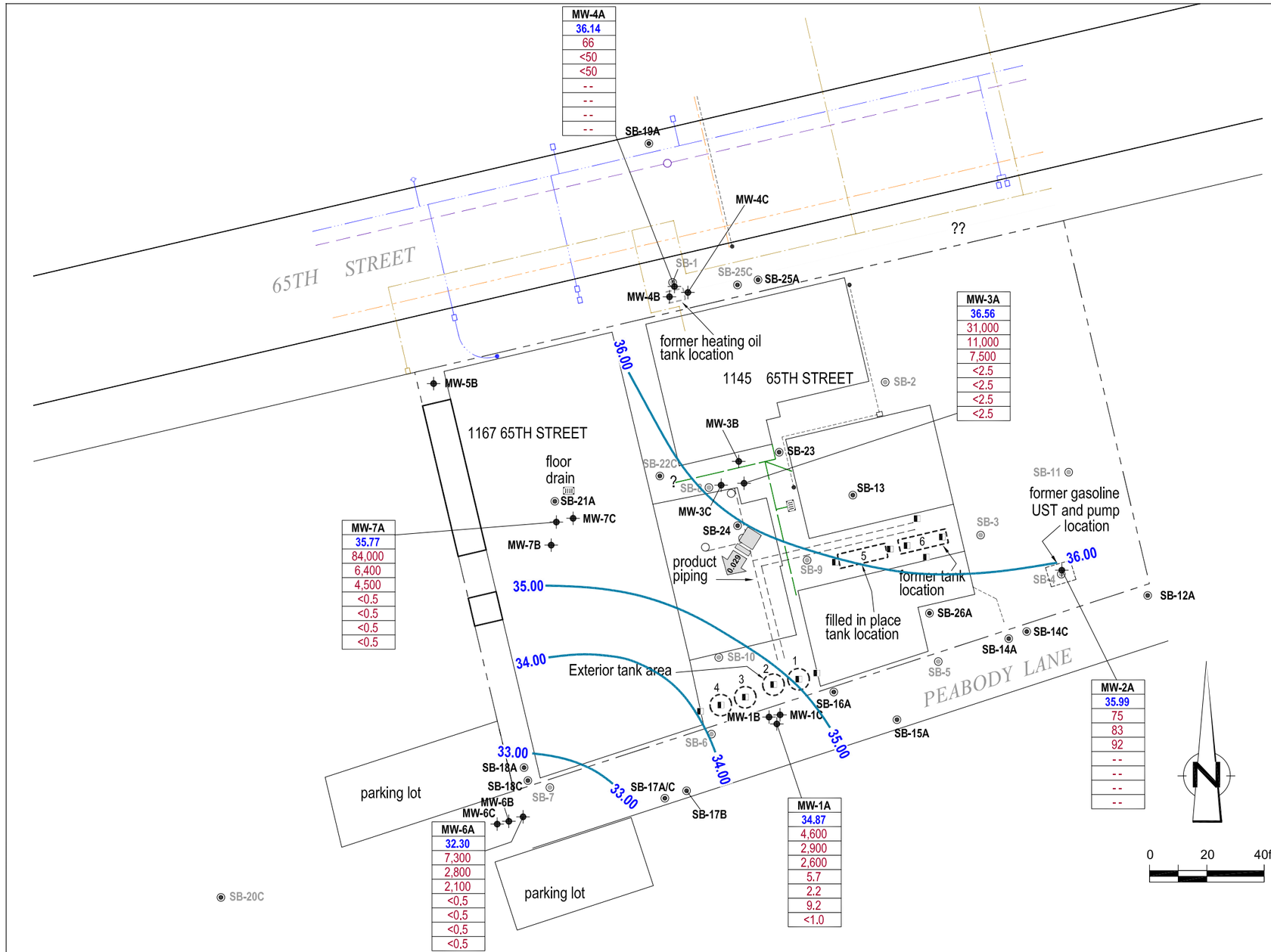
SCALE : 1" = 1/4 MILE

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

1137 - 1167 65th Street

Oakland, California



EXPLANATION

- MW-1A — CRA monitoring well location
- SB-12 — CRA soil boring location
- SB-1 — CRA soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 33.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.075 — Groundwater flow direction and gradient
- -- — Not analyzed

Well ID	Monitoring Well Designation
ELEV.	Groundwater elevation in feet above mean sea level (MSL)
TPHd	Concentrations in groundwater in micrograms per liter
TPHss	
TPHg	
PCE	
TCE	
cis-1,2-DCE	
Vinyl Chloride	

Groundwater Flow Direction
2Q-04 through 3Q-09

Figure 2

GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS - A ZONE

1137 - 1167 65th STREET
Oakland, California
September 21, 22, 2009

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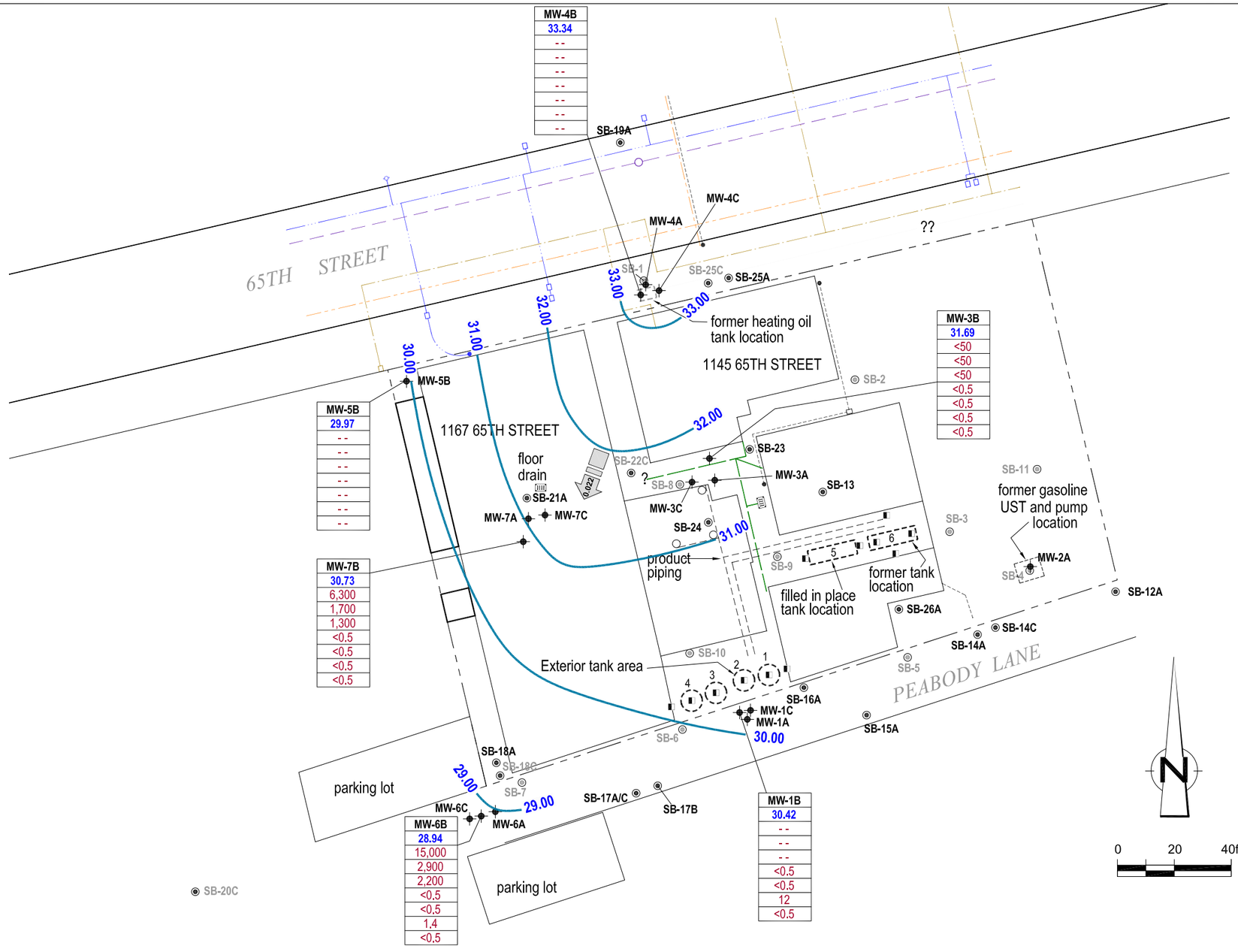


EXPLANATION

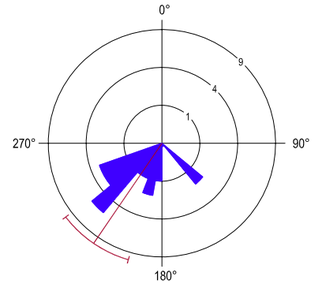
- MW-1A — CRA monitoring well location
- SB-12 — CRA soil boring location
- SB-1 — CRA soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 32.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.022 — Groundwater flow direction and gradient
- -- Not analyzed

Well ID
ELEV.
TPHd
TPHss
TPHg
PCE
TCE
cis-1,2-DCE
Vinyl Chloride

Monitoring Well Designation

Groundwater elevation in feet above mean sea level (MSL)

Concentrations in groundwater in micrograms per liter



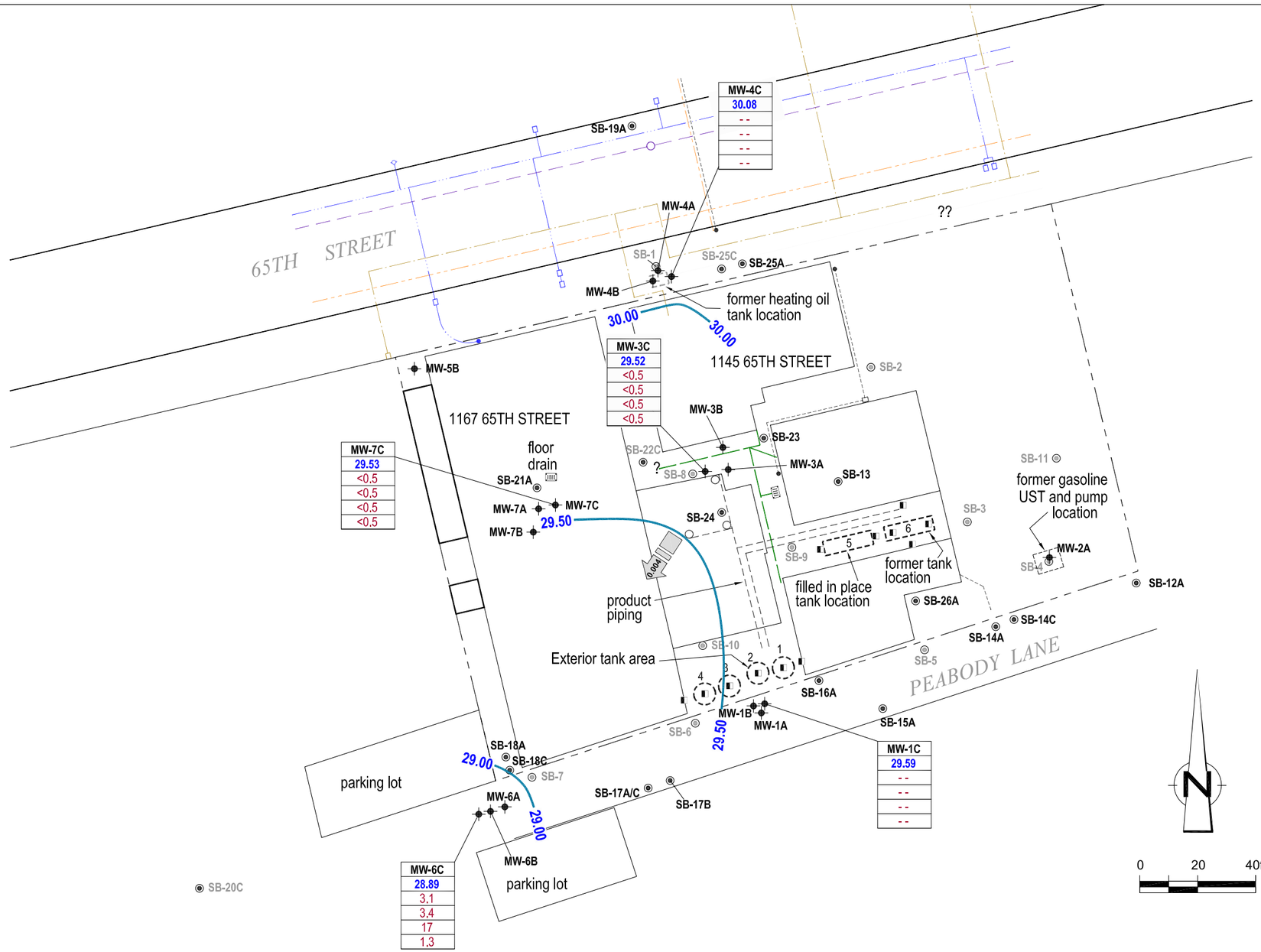
Groundwater Flow Direction
2Q-04 through 3Q-09

Figure 3

GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS - B ZONE

1137 - 1167 65th STREET
Oakland, California
September 21, 22, 2009

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000_EM001-3Q09-B.DWG

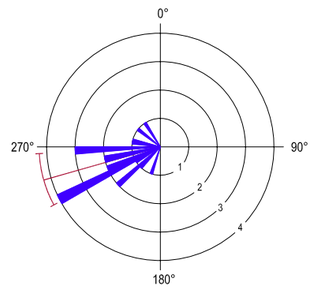


EXPLANATION

- MW-1A — CRA monitoring well location
- SB-12 — CRA soil boring location
- SB-1 — CRA soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 32.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.004 — Groundwater flow direction and gradient
- -- Not analyzed

Well ID
ELEV.
PCE
TCE
cis-1,2-DCE
Vinyl Chloride

Monitoring Well Designation
Groundwater elevation in feet above mean sea level (MSL)
Concentrations in groundwater in micrograms per liter



Groundwater Flow Direction
2Q-04 through 3Q-09

Figure 4

GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS - C ZONE

1137 - 1167 65th STREET
Oakland, California
September 21, 22, 2009

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000_EM001-3Q09-C.DWG

TABLES

TABLE 1

WELL CONSTRUCTION DETAILS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID	*Date Installed*	*Borehole Depth* (ft)	*Borehole Diameter* (inches)	*Casing Diameter* (in)	*Screen Interval* (ft bgs)	*Screen Size* (in)	*Filter Pack* (ft bgs)	*Bentonite Seal* (ft bgs)	*Cement Seal* (ft bgs)	*TOC Elevation* (ft msl)	*First Water* (ft bgs)
A-Zone Monitoring Wells											
MW-1A	5/10/2004	14.5	8	2	4.5 - 14.5	0.010	3.5 - 14.5	2.5 - 3.5	0 - 2.5	39.64	7.0
MW-2A	5/11/2004	12.0	10	4	3.0 - 12.0	0.020	2.5 - 3.0	1.0 - 2.5	0 - 1.0	40.72	4.5
MW-3A	5/7/2004	16.0	8	2	3.5 - 14.0	0.010	3.0 - 3.5	2.0 - 3.0	0 - 2.0	40.88	4.0
MW-4A	5/18/2004	16.0	8	2	3.0 - 13.0	0.010	2.5 - 13.0	1.5 - 2.5	0 - 1.5	38.71	NA
MW-6A	5/11/2004	14.5	8	2	4.5 - 14.5	0.010	3.5 - 14.5	1.5 - 3.5	0 - 1.5	37.98	12.0
MW-7A	5/7/2004	10.0	6.5	1	5.0 - 10.0	0.010	4.0 - 10.0	3.0 - 4.0	0 - 3.0	40.58	6.0
B-Zone Monitoring Wells											
MW-1B	5/12/2004	20.0	8	2	16.5 - 20.0	0.010	15.5 - 20.0	13.0 - 15.5	0 - 13.0	39.50	7.0
MW-3B	8/17/2009	24.0	5	1	17.0 - 24.0	0.010	15.0 - 24.0	13.0 - 15.0	0 - 13.0	40.62	NA
MW-4B	5/18/2004	24.0	8	2	17.0 - 21.0	0.010	16.0 - 21.0	12.0 - 14.0 21.0 - 24.0	0 - 12.0	38.54	3.5
MW-5B	5/18/2004	24.0	8	2	15.0 - 24.0	0.010	14.0 - 24.0	12.0 - 14.0	0 - 12.0	38.98	NA
MW-6B	5/12/2004	24.5	8	2	17.0 - 22.0	0.010	16.0 - 22.0	14.0 - 16.0 22.0 - 24.5	0 - 14.0	37.66	15.5
MW-7B	8/14/2009	24.0	5	1	17.0 - 24.0	0.010	16.0 - 24.0	14.0 - 16.0	0 - 14.0	40.05	12.0
C-Zone Monitoring Wells											
MW-1C	5/10/2004	40.0	8	2	25.0 - 34.0	0.010	24.0 - 34.0	22.0 - 24.0 34.0 - 40.0	0 - 22.0	39.49	7.0
MW-3C	8/13/2009	40.0	5	1	27.0 - 38.0	0.010	26.0 - 38.0	24.0 - 26.0 38.0 - 40.0	0 - 24.0	41.00	12.0
MW-4C	5/17/2004	40.0	8	2	27.0 - 32.0	0.010	26.0 - 27.0	24.0 - 26.0 32.0 - 40.0	0 - 24.0	38.50	12.0
MW-6C	5/11/2004	39.5	8	2	26.5 - 34.0	0.010	25.5 - 34.0	23.0 - 25.0 34.0 - 39.5	0 - 23.0	37.59	15.0
MW-7C	8/14/2009	35.0	5	1	25.0 - 35.0	0.010	23.0 - 35.0	21.0 - 23.0	0 - 21.0	40.44	12.0

Abbreviations / Notes

ft = feet
in = inches
ft bgs = feet below grade surface
ft msl = feet above mean sea level
TOC = top of casing

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-1A	6/3/2004	Zone A	35.14	4.50	2,500	1,300	260	1,400	ND<0.5	ND<0.5	2.0	11	ND<5.0	
39.64	11/23/2004		36.54	3.10	2,800	1,400	ND<250	2,300	0.64	ND<0.5	2.5	9.7	6.8	a,b,c
	3/14/2005		37.02	2.62	6,000	3,200	ND<250	4,800	0.68	ND<0.5	2.0	6.8	ND<5.0	d,e
	6/15/2005		35.14	4.50	3,400	2,500	ND<250	2,800	ND<2.5	ND<2.5	ND<2.5	5.9	ND<25	a,b,h,i,c
	9/19/2005		33.14	6.50	6,000	2,800	ND<250	4,100	ND<1.0	ND<1.0	3.3	6.2	ND<10	a,b,i,c
	12/12/2005		35.14	4.50	3,100	2,500	ND<250	2,600	ND<1.7	ND<1.7	2.7	6.5	ND<17	a,b,c,h,i
	3/13/2006		37.74	1.90	2,400	2,300	ND<250	2,000	0.51	ND<0.5	1.9	3.5	--	a,b,c,i
	6/19/2006		35.94	3.70	3,500	2,600	ND<250	2,200	0.52	ND<0.5	2.9	6.7	--	m,b,c
	9/20/2006		34.19	5.45	2,400	2,400	ND<250	2,200	ND<2.5	ND<2.5	3.0	9.7	--	a,b,c,i
	12/20/2006		37.02	2.62	1,400	1,900	ND<250	1,300	0.52	ND<0.5	2.9	7.6	--	a,e,h
	3/29/2007		37.04	2.60	2,100	1,200	ND<250	1,800	ND<0.5	ND<0.5	2.2	6.4	ND<5.0	a,b,c
	6/11/2007		35.72	3.92	2,200	2,200	ND<250	3,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,b,c
	9/7/2007		33.90	5.74	1,700	1,800	ND<250	2,300	ND<0.5	ND<0.5	2.2	4.6	ND<5.0	a,b,c
	12/12/2007		36.53	3.11	3,400	2,500	ND<250	3,100	ND<5.0	ND<5.0	ND<5.0	12	ND<50	a,c
	3/7/2008		37.23	2.41	1,600	1,700	ND<250	2,200	ND<0.5	ND<0.5	2.3	8.9	--	a,c
	6/9/2008		34.69	4.95	2,500	2,000	ND<250	2,200	ND<2.5	ND<2.5	3.4	8.1	ND<25	a,b,c,i
	9/5/2008		33.58	6.06	2,600	1,400	ND<250	2,300	ND<5.0	ND<5.0	ND<5.0	6.4	ND<50	a,c
	12/18/2008		36.68	2.96	1,900	1,800	ND<250	1,600	ND<0.5	ND<0.5	3.3	ND<0.5	--	a,b,c
	3/30/2009		37.28	2.36	3,100	1,800	ND<250	2,000	1.7	ND<1.0	3.4	5.3	ND<10	b,c,m
	9/21-22/2009		**34.87**	**4.77**	**2,900**	**4,600**	**ND<250**	**2,600**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,h**
MW-2A	6/3/2004	Zone A	36.48	4.24	3,500	2,900	ND<250	1,700	ND<0.5	3.5	4.9	5.1	ND<5.0	
40.72	11/23/2004		37.83	2.89	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		39.02	1.70	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	260	560	450	360	ND<0.5	2.5	ND<0.5	ND<0.5	ND<5.0	e,d,g,i
	6/15/2005		37.91	2.81	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	430	470	330	480	ND<0.5	2.9	ND<0.5	ND<0.5	ND<5.0	a,b,i,g,e
	9/19/2005		35.46	5.26	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	960	2,100	870	960	ND<0.5	4.7	2.9	ND<0.5	ND<5.0	e,g,b,i,l
	12/12/2005		37.66	3.06	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	510	700	470	670	ND<0.5	5.9	ND<0.5	ND<0.5	ND<5.0	a,b,e,g,i
	3/13/2006		40.33	0.39	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	81	81	ND<250	100	ND<0.5	1.5	ND<0.5	ND<0.5	--	a,b,c,i
	6/19/2006		37.31	3.41	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	180	530	420	270	ND<0.5	1.7	ND<0.5	ND<0.5	--	e,g,i,l
	9/20/2006		34.65	6.07	1,700	800	730	1,700	ND<2.5	5.5	ND<2.5	ND<2.5	--	a,b,d,e,g,i

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-2A	12/20/2006		38.57	2.15	61	190	300	94	ND<0.5	1.5	ND<0.5	ND<0.5	--	e,g,m,n
cont.	3/29/2007		38.22	2.50	240	200	ND<250	260	ND<0.5	2.7	ND<0.5	ND<0.5	ND<5.0	a,b,c
	6/11/2007		37.14	3.58	94	200	ND<250	180	ND<0.5	1.7	ND<0.5	ND<0.5	--	a,b,c,i
	9/7/2007		35.04	5.68	180	190	ND<250	240	ND<0.5	0.98	ND<0.5	ND<0.5	ND<5.0	a,b,c,i
	12/12/2007		37.82	2.90	140	220	360	190	ND<0.5	2.9	ND<0.5	ND<0.5	ND<5.0	a,b,g,e
	3/7/2008		38.79	1.93	ND<50	90	ND<250	100	ND<0.5	1.2	ND<0.5	ND<0.5	--	e,b
	6/9/2008		36.18	4.54	180	150	ND<250	180	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	a,b,e,i
	9/5/2008		34.46	6.26	220	180	310	300	ND<0.5	1.2	0.59	ND<0.5	ND<5.0	e,g,i,l
	12/18/2008		37.55	3.17	93	170	320	140	ND<0.5	2.7	ND<0.5	ND<0.5	--	a,b,c,d,g,i
	3/30/2009		38.76	1.96	ND<50	99	ND<250	96	ND<0.5	3.2	ND<0.5	ND<0.5	ND<5.0	b,d,e
	9/21-22/2009		**35.99**	**4.73**	**83**	**75**	**ND<250**	**92**	**ND<0.5**	**0.88**	**ND<0.5**	**ND<0.5**	**--**	**c,i,l**
MW-3A	6/3/2004	Zone A	36.56	4.32	12,000	90,000	6,000	4,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	
40.88	11/23/2004		37.89	2.99	5,700	22,000	ND<2,500	3,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d
	3/14/2005		37.28	3.60	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	3,500	37,000	ND<2,500	2,400	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<17	e,d,i
	6/15/2005		36.78	4.10	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	3,300	15,000	ND<1,200	2,100	ND<1.7	ND<1.7	ND<1.7	2.4	ND<17	a,c,d,h,i
	9/19/2005		35.93	4.95	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	8,000	55,000	ND<5,000	4,700	ND<1.0	ND<1.0	2.6	6.8	ND<10	a,b,c,d,i
	12/12/2005		36.72	4.16	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	1,600	34,000	ND<12,000	1,100	ND<1.7	ND<1.7	ND<1.7	2.3	ND<17	a,b,c,d,h,i
	3/13/2006		37.42	3.46	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	3,300	21,000	1,600	2,200	ND<0.5	ND<0.5	1.1	ND<0.5	--	a,c,d,g,h
	6/19/2006		36.48	4.40	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	16,000	19,000	1,000	8,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	c,d,g,h,m
	9/20/2006		35.78	5.10	3,300	13,000	1,300	2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,g,h,i
	12/20/2006		36.78	4.10	3,500	15,000	670	2,600	ND<2.5	ND<2.5	ND<2.5	7.6	--	e,g,h,n
	3/29/2007		36.82	4.06	3,400	21,000	940	2,600	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d,h
	6/11/2007		36.52	4.36	3,500	13,000	730	5,200	ND<10	ND<10	ND<10	ND<10	--	a,d,h
	9/7/2007		35.98	4.90	15,000	36,000	1,600	11,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,d,h
	12/12/2007		36.54	4.34	13,000	41,000	ND<2,500	9,500	ND<5.0	7.1	ND<5.0	32	ND<50	a,c,h,
	3/7/2008		36.87	4.01	2,800	26,000	1,200	3,200	ND<2.5	ND<2.5	ND<2.5	2.5	--	a,h,c
	6/9/2008		36.03	4.85	16,000	20,000	ND<1,200	7,500	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	9/5/2008		35.78	5.10	19,000	17,000	1,200	15,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	12/18/2008		36.65	4.23	6,600	25,000	ND<2,500	4,700	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	c,m,h

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-3A	3/30/2009		37.19	3.69	15,000	31,000	ND<2,500	8,300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	c,h,m
cont.	**9/21-22/2009**		**36.56**	**4.32**	**11,000**	**31,000**	**1,300**	**7,500**	**5.8**	**7.5**	**ND<5.0**	**ND<5.0**	**--**	**a,c,d,i**
MW-4A	6/3/2004	Zone A	36.26	2.45	ND<50	270	440	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.71	11/23/2004		37.13	1.58	ND<50	73	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d
	3/14/2005		36.66	2.05	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	210	300	ND<50	0.91	1.7	ND<0.5	1.9	ND<5.0	g,d,f,i
	6/15/2005		36.38	2.33	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	75	99	ND<250	59	1.0	1.9	ND<0.5	2.1	ND<5.0	j,d,f
	9/19/2005		35.01	3.70	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	87	ND<250	ND<50	1.2	2.1	0.51	2.4	ND<5.0	d,f
	12/12/2005		36.39	2.32	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	71	ND<250	ND<50	0.67	1.4	ND<0.5	1.9	ND<5.0	d,f,i
	3/13/2006		36.75	1.96	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	ND<50	68	ND<250	ND<50	0.60	1.3	ND<0.5	1.8	--	d,f
	6/19/2006		36.15	2.56	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	ND<50	72	ND<250	ND<50	0.53	1.1	ND<0.5	1.6	--	f
	9/20/2006		35.10	3.61	88	160	ND<250	110	1.2	2.5	0.61	3.9	--	a,d,f,i
	12/20/2006		36.39	2.32	ND<50	97	ND<250	ND<50	0.99	2.1	0.52	2.9	--	f
	3/29/2007		36.46	2.25	ND<50	ND<50	ND<250	ND<50	ND<0.5	0.93	ND<0.5	1.3	ND<5.0	
	6/11/2007		36.14	2.57	ND<50	66	ND<250	ND<50	ND<0.5	0.92	ND<0.5	1.6	--	d,f
	9/7/2007		35.34	3.37	ND<50	78	ND<250	ND<50	0.74	1.3	ND<0.5	1.9	ND<5.0	f
	12/12/2007		36.25	2.46	62	68	ND<250	86	0.62	1.8	ND<0.5	2.4	ND<5.0	j,d,f
	3/7/2008		36.46	2.25	ND<50	71	ND<250	ND<50	ND<0.5	1.0	ND<0.5	1.5	--	l,f
	6/9/2008		35.49	3.22	ND<50	66	ND<250	ND<50	ND<0.5	0.94	ND<0.5	1.5	ND<5.0	d,f
	9/5/2008		34.79	3.92	69	100	ND<250	90	0.61	1.2	ND<0.5	2.0	ND<5.0	d,h,j
	12/18/2008		36.55	2.16	ND<50	73	ND<250	ND<50	0.67	1.4	ND<0.5	2.3	--	d,f
	3/30/2009		36.43	2.28	70	89	ND<250	75	0.64	1.4	ND<0.5	2.4	ND<5.0	d,j
	9/21-22/2009		**36.14**	**2.57**	**ND<50**	**66**	**ND<250**	**ND<50**	**ND<0.5**	**0.83**	**ND<0.5**	**1.9**	**--**	**f,i**
MW-6A	6/3/2004	Zone A	31.98	6.00	2,400	3,500	340	970	ND<0.5	ND<0.5	ND<0.5	2.1	ND<5.0	
37.98	11/23/2004		33.13	4.85	3,000	1,400	ND<250	1,900	ND<0.5	ND<0.5	ND<0.5	3.0	ND<5.0	a,c
	3/14/2005		35.03	2.95	2,600	5,900	ND<250	2,900	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	e,d,i
	6/15/2005		33.28	4.70	3,400	6,100	ND<250	2,200	ND<0.5	ND<0.5	0.60	4.4	ND<10	a,i,c,d
	9/19/2005		32.07	5.91	3,900	2,600	ND<250	2,200	ND<1.0	ND<1.0	1.4	7.6	ND<10	a,b,c
	12/12/2005		33.12	4.86	4,500	4,600	ND<250	2,900	ND<0.5	ND<0.5	1.6	8.9	ND<5.0	a,c,h,i

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-6A	3/13/2006		36.05	1.93	3,000	4,300	ND<250	1,900	ND<0.5	ND<0.5	ND<0.5	4.3	--	a,c,d,h
cont.	6/19/2006		32.59	5.39	4,600	7,800	260	2,300	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	c,g,h,m
	9/20/2006		31.96	6.02	1,200	2,600	ND<250	960	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	a,c,i
	12/20/2006		33.57	4.41	3,200	4,100	ND<250	2,400	ND<5.0	ND<5.0	ND<5.0	8.1	--	e,h,n
	3/29/2007		33.67	4.31	2,700	2,900	ND<250	2,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c
	6/11/2007		32.95	5.03	3,700	6,400	ND<250	4,300	ND<0.5	ND<0.5	2.1	9.5	--	a,c
	9/7/2007		32.32	5.66	1,400	5,800	ND<250	1,600	ND<1.0	ND<1.0	ND<1.0	3.1	ND<10	a,b,c,d,h
	12/12/2007		33.50	4.48	4,400	9,600	ND<250	3,300	ND<5.0	ND<5.0	ND<5.0	8.4	ND<50	a,c,d
	3/7/2008		34.30	3.68	3,700	6,200	280	4,100	ND<2.5	ND<2.5	ND<2.5	6.9	--	a,h,c
	6/9/2008		32.30	5.68	16,000	7,200	290	7,900	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h,i
	9/5/2008		32.05	5.93	11,000	3,200	ND<250	8,700	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h
	12/18/2008		33.98	4.00	4,300	11,000	460	3,000	ND<1.0	ND<1.0	1.2	ND<1.0	--	a,c,d,h
	3/30/2009		34.06	3.92	3,100	11,000	430	2,300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,h,j
	9/21-22/2009		**32.30**	**5.68**	**2,800**	**7,300**	**300**	**2,100**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,d,h**
MW-7A	6/3/2004	Zone A	36.08	4.50	9,900	--	--	3,900	ND<5.0	ND<5.0	ND<5.0	6.6	ND<50	
40.58	11/23/2004		--	--	--	--	--	--	--	--	--	--	--	
	3/14/2005		37.03	3.55	3,700	14,000	620	3,900	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	c,d,h
	6/15/2005		36.41	4.17	3,900	24,000	ND<1,200	2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d,h,i
	9/19/2005		35.25	5.33	13,000	43,000	ND<5,000	7,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,i
	12/12/2005		36.15	4.43	2,500	10,000	ND<1,200	1,700	ND<1.0	ND<1.0	1.4	2.4	ND<10	a,c,d,h,i
	3/13/2006		36.76	3.82	2,300	31,000	1,100	1,600	ND<0.5	ND<0.5	0.93	9.1	--	a,c,d,g,h,i
	6/19/2006		35.78	4.80	44,000	36,000	1,300	26,000	ND<5.0	ND<5.0	10	ND<5.0	--	c,d,g,h,i,m
	9/20/2006		35.03	5.55	69,000	36,000	ND<5,000	49,000	ND<50	ND<50	ND<50	ND<50	--	a,c,h,i
	12/20/2006		36.35	4.23	53,000	14,000	ND<1,200	38,000	ND<50	ND<50	ND<50	150	--	e,h,n
	3/29/2007		36.06	4.52	5,600	34,000	890	4,100	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,h,c,d
	6/11/2007		36.02	4.56	3,400	32,000	ND<1,200	3,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h,i
	9/7/2007		35.18	5.40	19,000	57,000	ND<2,500	21,000	ND<10	ND<10	ND<10	54	ND<100	a,b,c,d,h
	12/12/2007		35.96	4.62	16,000	45,000	1,400	13,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,d
	3/7/2008		36.28	4.30	3,500	56,000	1,600	3,800	ND<2.5	ND<2.5	ND<2.5	3.7	--	a,h,i,c
	6/9/2008		35.35	5.23	68,000	150,000	ND<12,000	35,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	9/5/2008		35.00	5.58	13,000	63,000	2,700	9,800	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	12/18/2008		35.95	4.63	9,100	28,000	ND<2,500	6,200	ND<2.5	ND<2.5	2.7	ND<2.5	--	a,c,h
	3/30/2009		36.38	4.20	16,000	110,000	ND<12,000	11,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	9/21-22/2009		**35.77**	**4.81**	**6,400**	**84,000**	**ND<5,000**	**4,500**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,h**

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-1B	6/3/2004	Zone B	25.10	14.40	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
39.50	11/23/2004		26.24	13.26	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		33.97	5.53	ND<50	52	ND<250	ND<50	0.60	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d,i
	6/15/2005		31.87	7.63	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		30.35	9.15	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		30.39	9.11	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.15	7.35	--	--	--	--	--	--	--	--	--	
	6/19/2006		22.99	16.51	--	--	--	--	--	--	--	--	--	
	9/20/2006		30.32	9.18	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.60	7.90	--	--	--	--	--	--	--	--	--	
	3/29/2007		24.63	14.87	--	--	--	--	--	--	--	--	--	
	6/11/2007		26.39	13.11	--	--	--	--	--	--	--	--	--	
	9/7/2007		28.42	11.08	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.60	8.90	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.48	7.02	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.50	9.00	--	--	--	--	--	--	--	--	--	
	9/5/2008		30.11	9.39	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.34	9.16	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.09	7.41	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**30.42**	**9.08**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3B	**9/21-22/2009**	Zone B	**31.69**	**8.93**	**ND<50**	**ND<50**	**ND<250**	**ND<50**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**--**	**i**
40.62														
MW-4B	6/3/2004	Zone B	33.52	5.02	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.54	11/23/2004		34.65	3.89	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		34.78	3.76	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		33.98	4.56	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		32.57	5.97	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		33.65	4.89	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		34.61	3.93	--	--	--	--	--	--	--	--	--	
	6/19/2006		33.86	4.68	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-4B	9/20/2006		32.58	5.96	--	--	--	--	--	--	--	--	--	
cont.	12/20/2006		33.92	4.62	--	--	--	--	--	--	--	--	--	
	3/29/2007		33.96	4.58	--	--	--	--	--	--	--	--	--	
	6/11/2007		34.03	4.51	--	--	--	--	--	--	--	--	--	
	9/7/2007		33.22	5.32	--	--	--	--	--	--	--	--	--	
	12/12/2007		33.85	4.69	--	--	--	--	--	--	--	--	--	
	3/7/2008		34.58	3.96	--	--	--	--	--	--	--	--	--	
	6/9/2008		33.45	5.09	--	--	--	--	--	--	--	--	--	
	9/5/2008		32.64	5.90	--	--	--	--	--	--	--	--	--	
	12/18/2008		33.39	5.15	--	--	--	--	--	--	--	--	--	
	3/30/2009		34.33	4.21	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**33.34**	**5.20**	--	--	--	--	--	--	--	--	--	
MW-5B	6/3/2004	Zone B	30.16	8.82	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.98	11/23/2004		31.32	7.66	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		32.71	6.27	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		31.20	7.78	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		28.68	10.30	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		30.65	8.33	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.87	6.11	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.97	8.01	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.68	9.30	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.77	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.40	7.58	--	--	--	--	--	--	--	--	--	
	6/11/2007		31.02	7.96	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.02	8.96	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.88	8.10	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.55	6.43	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.50	9.48	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.10	6.88	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**29.97**	**9.01**										

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-6B	6/3/2004	Zone B	29.36	8.30	2,900	2,300	ND<250	1,100	ND<0.5	ND<0.5	ND<0.5	1.4	ND<5.0	
37.66	11/23/2004		30.53	7.13	700	280	ND<250	500	ND<0.5	ND<0.5	ND<0.5	1.6	ND<5.0	a,c
	3/14/2005		31.86	5.80	1,200	5,200	340	1,300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	e,d,i
	6/15/2005		30.17	7.49	1,300	1,700	ND<250	900	ND<0.5	ND<0.5	ND<0.5	1.9	ND<5.0	a,c
	9/19/2005		28.83	8.83	2,000	2,700	ND<250	1,200	1.0	1.4	ND<1.0	5.0	ND<20	a,b,c
	12/12/2005		29.85	7.81	1,200	4,100	ND<250	840	ND<0.5	ND<0.5	ND<0.5	3.3	ND<5.0	a,c,h,i
	3/13/2006		32.31	5.35	2,000	6,900	270	1,400	ND<0.5	ND<0.5	ND<0.5	4.7	--	a,c,d,h,i
	6/19/2006		29.88	7.78	3,300	7,700	310	1,700	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	c,g,h,m
	9/20/2006		28.78	8.88	4,200	16,000	740	3,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,g,h,i
	12/20/2006		30.34	7.32	77,000	16,000	ND<1,200	55,000	ND<50	ND<50	ND<50	130	--	e,g,h,n
	3/29/2007		30.44	7.22	4,300	24,000	650	3,400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,h,c,d
	6/11/2007		29.93	7.73	2,100	29,000	ND<1,200	2,600	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h
	9/7/2007		28.95	8.71	3,800	32,000	ND<1,200	4,500	ND<5.0	ND<5.0	ND<5.0	11	ND<50	a,b,c,d,h
	12/12/2007		30.00	7.66	15,000	36,000	1,000	12,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,h,c,d
	3/7/2008		31.70	5.96	2,700	27,000	1,100	3,100	ND<2.5	ND<2.5	ND<2.5	6.1	--	a,h,k
	6/9/2008		29.36	8.30	20,000	81,000	ND<5,000	9,500	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	9/5/2008		28.66	9.00	17,000	40,000	ND<2500	13,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h
	12/18/2008		29.68	7.98	7,400	29,000	ND<2,500	5,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,h
	3/30/2009		31.31	6.35	13,000	34,000	ND<2,500	10,000	ND<25	ND<25	ND<25	ND<25	ND<250	c,h,m
	9/21-22/2009		**28.94**	**8.72**	**2,900**	**15,000**	**610**	**2,200**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,d,h**
MW-7B	**9/21-22/2009**	Zone B	**30.73**	**9.32**	**1,700**	**6,300**	**ND<500**	**1,300**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**2.3**	**--**	**a,c,h**
40.05														
MW-1C	6/3/2004	Zone C	30.07	9.42	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
39.49	11/23/2004		31.30	8.19	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		32.58	6.91	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	f
	6/15/2005		30.89	8.60	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		29.19	10.30	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		30.54	8.95	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.99	6.50	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.66	8.83	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.53	9.96	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.13	8.36	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.19	8.30	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.63	8.86	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-1C	9/7/2007		29.60	9.89	--	--	--	--	--	--	--	--	--	
cont.	12/12/2007		30.61	8.88	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.46	7.03	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.07	9.42	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.34	10.15	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.28	9.21	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.12	7.37	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**29.59**	**9.90**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3C	**9/21-22/2009**	Zone C	**29.52**	**11.48**	**ND<50**	**79**	**ND<250**	**ND<50**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**--**	**f,i**
41.00														
MW-4C	6/3/2004	Zone C	30.10	8.40	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.50	11/23/2004		31.31	7.19	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		33.15	5.35	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		30.85	7.65	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		25.97	12.53	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		30.00	8.50	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		31.18	7.32	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.90	7.60	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.91	8.59	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.29	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.29	7.21	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.93	7.57	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.20	8.30	--	--	--	--	--	--	--	--	--	
	12/12/2007		31.10	7.40	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.25	6.25	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.35	8.15	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.62	8.88	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.31	8.19	--	--	--	--	--	--	--	--	--	
	3/30/2009		31.59	6.91	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**30.08**	**8.42**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*
MW-6C	6/3/2004	Zone C	27.89	9.70	340	240	ND<250	160	ND<0.5	ND<0.5	ND<0.5	1.1	ND<5.0	
37.59	11/23/2004		29.21	8.38	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		31.79	5.80	ND<50	60	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d
	6/15/2005		30.14	7.45	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		28.79	8.80	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		29.81	7.78	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/13/2006		32.09	5.50	--	--	--	--	--	--	--	--	--	
	6/19/2006		29.84	7.75	--	--	--	--	--	--	--	--	--	
	9/20/2006		28.74	8.85	--	--	--	--	--	--	--	--	--	
	12/20/2006		30.29	7.30	--	--	--	--	--	--	--	--	--	
	3/29/2007		30.39	7.20	--	--	--	--	--	--	--	--	--	
	6/11/2007		29.86	7.73	--	--	--	--	--	--	--	--	--	
	9/7/2007		28.92	8.67	--	--	--	--	--	--	--	--	--	
	12/12/2007		29.94	7.65	--	--	--	--	--	--	--	--	--	
	3/7/2008		31.63	5.96	--	--	--	--	--	--	--	--	--	
	6/9/2008		29.32	8.27	--	--	--	--	--	--	--	--	--	
	9/5/2008		28.60	8.99	--	--	--	--	--	--	--	--	--	
	12/18/2008		29.64	7.95	--	--	--	--	--	--	--	--	--	
	3/30/2009		31.26	6.33	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**28.89**	**8.70**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7C	**9/21-22/2009**	**Zone C**	**29.53**	**10.91**	**2,300**	**1,900**	**ND<250**	**1,600**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**2**	**--**	**a,c,h**
40.44														

Abbreviations and Notes:

µg/L = micrograms per liter - approximately equal to parts per billion = ppb
(TOC) = Top of casing elevation in feet above mean sea level (msl)
ft = measured in feet
TPHd = Total petroleum hydrocarbons as diesel by EPA Method SW8015C with silica gel cleanup (C10-C23)
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method SW8015C (C6-C12).
TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method SW8015C with silica gel cleanup (C18-C36)
TPHss = Total petroleum hydrocarbons as stoddard solvent by EPA Method SW8015C (C9-C12)
Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B.
MTBE = Methyl tertiary-butyl ether by EPA Method SW8021B (EPA Method SW8260B).
ND<50 = Not Detected above detection limit cited.

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss (µg/L)*	*TPHd (µg/L)*	*TPHmo (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Xylenes (µg/L)*	*MTBE (µg/L)*	*Notes*

-- = Not available, not applicable, not analyzed, not measured
a = TPH pattern that does not appear to be derived from gasoline
(stoddard solvent/mineral spirit?).
b = No recognizable pattern.
c = Stoddard solvent/mineral spirit.
d = Diesel range compounds are significant; no recognizable pattern.
e = Gasoline range compounds are significant.
f = One to a few isolated peaks present
g = Oil range compounds are significant.
h = Lighter than water immiscible sheen/product is present.
i = Liquid sample contains greater than ~1 vol. % sediment.
j = Unmodified or weakly modified gasoline is significant
k = TPHg range non-target isolated peaks subtracted out of the TPHg concentration
l = Heavier gasoline compounds are significant (aged gasoline?)
m = Strongly aged gasoline or diesel range compounds are significant
n = Diesel range compounds are significant

TABLE 3

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft amsl)	*Depth to Water* (ft, TOC)	*Chlorobenzene* (µg/L)	*Chloroethane* (µg/L)	*Chloroform* (µg/L)	*1,1,2,2,-Tetra-chloroethane* (µg/L)	*(PCE) Tetrachloroethene* (µg/L)	*(TCE) Trichloroethene* (µg/L)	*1,2-Dichlorobenzene* (µg/L)	*cis-1,2-Dichloroethene* (µg/L)	*trans-1,2-Dichloroethene* (µg/L)	*1,1-Dichloroethane* (µg/L)	*(1,2-DCA) 1,2-Dichloroethane* (µg/L)	*Vinyl Chloride* (µg/L)	*Notes*
MW-1A	6/3/2004	**Zone A**	35.14	4.50	--	ND<2.5	ND<2.5	ND<2.5	55	16	ND<2.5	36	ND<2.5	ND<2.5	ND<2.5	6.3	
39.64	11/23/2004		36.54	3.10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	38	11	ND<1.0	51	2.4	2.8	ND<1.0	9.5	
	3/14/2005		37.02	2.62	ND<1.0	ND<1.0	ND<1.0	ND<1.0	42	12	2.0	32	2.2	2.4	ND<1.0	8.0	
	6/15/2005		35.14	4.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	62	19	2.6	24	2.4	3.0	ND<1.0	10	h,i
	9/19/2005		33.14	6.50	ND<1.2	ND<1.2	ND<1.2	ND<1.2	55	18	2.3	28	2.0	2.6	ND<1.2	9.4	i
	12/12/2005		35.14	4.50	ND<1.0	ND<1.0	ND<1.0	16	60	17	2.0	22	2.3	2.5	ND<1.0	12	h,i
	3/13/2006		37.74	1.90	ND<1.2	ND<1.2	ND<1.2	14	30	17	ND<1.2	16	1.4	2.0	ND<1.2	4.0	i
	6/19/2006		35.94	3.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	33	9.0	ND<0.5	15	1.1	1.8	ND<0.5	3.2	
	9/20/2006		34.19	5.45	ND<0.5	ND<0.5	ND<0.5	ND<0.5	34	15	ND<0.5	21	1.6	2.3	ND<0.5	5.4	i
	12/20/2006		37.02	2.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	15	ND<0.5	16	1.3	1.7	ND<0.5	5.2	
	3/29/2007		37.04	2.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	29	16	ND<0.5	13	1.2	1.4	ND<0.5	ND<0.5	
	6/11/2007		35.72	3.92	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26	17	ND<0.5	13	1.6	1.9	ND<0.5	2.3	
	9/7/2007		33.90	5.74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	25	15	ND<0.5	17	1.4	2.0	ND<0.5	2.3	
	12/12/2007		36.53	3.11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	10	ND<0.5	14	1.2	2.1	ND<0.5	1.5	
	3/7/2008		37.23	2.41	ND<0.5	ND<0.5	ND<0.5	17	9.0	9.3	1.3	13	1.2	1.7	ND<0.5	1.7	
	6/9/2008		34.69	4.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	9.0	ND<0.5	11	1.1	1.8	ND<0.5	2.4	i
	9/5/2008		33.58	6.06	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	13	ND<0.5	13	1.3	1.7	ND<0.5	1.5	
	12/18/2008		36.68	2.96	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.6	8.6	ND<0.5	13	0.99	1.5	ND<0.5	2.7	
	3/30/2009		37.28	2.36	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	10	ND<0.5	9.8	1.1	1.5	ND<0.5	2.5	
	9/21-22/2009		**34.87**	**4.77**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**5.7**	**2.2**	**ND<1.0**	**9.2**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**h**
MW-2A	6/3/2004	**Zone A**	36.48	4.24	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
40.72	11/23/2004		37.83	2.89	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		39.02	1.70	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		37.91	2.81	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	9/19/2005		35.46	5.26	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		37.66	3.06	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		40.33	0.39	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		37.31	3.41	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		34.65	6.07	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		38.57	2.15	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		38.22	2.50	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		37.14	3.58	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		35.04	5.68	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		37.82	2.90	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		38.79	1.93	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		36.18	4.54	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		34.46	6.26	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		37.55	3.17	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		38.76	1.96	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**35.99**	**4.73**													
MW-3A	6/3/2004	**Zone A**	36.56	4.32	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	a
40.88	11/23/2004		37.89	2.99	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	3/14/2005		37.28	3.60	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	43	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	j, i

TABLE 3

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
	6/15/2005		36.78	4.10	--	--	--	--	--	--	--	--	--	--	--	--	
MW-3A	6/16/2005		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	52	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h,i
cont.	9/19/2005		35.93	4.95	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	51	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	i
	12/12/2005		36.72	4.16	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<1.0	ND<1.0	ND<1.0	26	ND<1.0	ND<1.0	43	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h,i,
	3/13/2006		37.42	3.46	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	i
	6/19/2006		36.48	4.40	3.7	--	--	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	9.8	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	9/20/2006		35.78	5.10	31	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h,i
	12/20/2006		36.78	4.10	31	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	3/29/2007		36.82	4.06	55	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	
	6/11/2007		36.52	4.36	68	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	h
	9/7/2007		35.98	4.90	82	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	h
	12/12/2007		36.54	4.34	72	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	h
	3/7/2008		36.87	4.01	74	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	19	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	6/9/2008		36.03	4.85	98	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	22	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	h,i
	9/5/2008		35.78	5.10	92	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	16	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	h
	12/18/2008		36.65	4.23	95	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	h
	3/30/2009		37.19	3.69	85	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	h
	9/21-22/2009		**36.56**	**4.32**	**82**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**h,i**
MW-4A	6/3/2004	**Zone A**	36.26	2.45	--	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.71	11/23/2004		37.13	1.58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		36.66	2.05	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		36.38	2.33	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/19/2005		35.01	3.70	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	12/12/2005		36.39	2.32	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		36.75	1.96	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		36.15	2.56	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		35.10	3.61	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		36.39	2.32	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		36.46	2.25	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		36.14	2.57	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		35.34	3.37	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		36.25	2.46	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		36.46	2.25	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		35.49	3.22	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		34.79	3.92	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		36.55	2.16	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		36.43	2.28	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
	9/21-22/2009		**36.14**	**2.57**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6A	6/3/2004	**Zone A**	31.98	6.00	--	4.7	0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	2.1	ND<0.5	6.7	
37.98	11/23/2004		33.13	4.85	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	

TABLE 3

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft amsl)	*Depth to Water* (ft, TOC)	*Chlorobenzene* (µg/L)	*Chloroethane* (µg/L)	*Chloroform* (µg/L)	*1,1,2,2,-Tetra-chloroethane* (µg/L)	*(PCE) Tetrachloroethene* (µg/L)	*(TCE) Trichloroethene* (µg/L)	*1,2-Dichlorobenzene* (µg/L)	*cis-1,2-Dichloroethene* (µg/L)	*trans-1,2-Dichloroethene* (µg/L)	*1,1-Dichloroethane* (µg/L)	*(1,2-DCA) 1,2-Dichloroethane* (µg/L)	*Vinyl Chloride* (µg/L)	*Notes*
	3/14/2005		35.03	2.95	ND<0.5	0.61	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
MW-6A	6/15/2005		33.28	4.70	ND<0.5	6.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.3	ND<0.5	2.5	1.5	ND<0.5	3.2	i
cont.	9/19/2005		32.07	5.91	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	6.7	4.7	0.59	5.0	
	12/12/2005		33.12	4.86	ND<0.5	13	ND<0.5	8.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	0.82	ND<0.5	ND<0.5	h,i
	3/13/2006		36.05	1.93	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	6/19/2006		32.59	5.39	ND<0.5	9.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	1.1	ND<0.5	1.3	h
	9/20/2006		31.96	6.02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	1.9	0.57	ND<0.5	i
	12/20/2006		33.57	4.41	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	3/29/2007		33.67	4.31	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.69	0.71	ND<0.5	ND<0.5	
	6/11/2007		32.95	5.03	ND<5.0	9.8	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	9/7/2007		32.32	5.66	ND<0.5	24	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/12/2007		33.50	4.48	ND<0.5	4.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/7/2008		34.30	3.68	ND<0.5	1.0	ND<0.5	9.5	ND<0.5	ND<0.5	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	6/9/2008		32.30	5.68	0.53	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	9/5/2008		32.05	5.93	1.0	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/18/2008		33.98	4.00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	b,h
	3/30/2009		34.06	3.92	ND<0.5	0.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	9/21-22/2009		**32.30**	**5.68**	**0.93**	**5.2**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
MW-7A	6/3/2004	**Zone A**	36.08	4.50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
40.58	11/23/2004		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2005		37.03	3.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	6/15/2005		36.41	4.17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	9/19/2005		35.25	5.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		36.15	4.43	ND<0.5	ND<0.5	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	3/13/2006		36.76	3.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	6/19/2006		35.78	4.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	9/20/2006		35.03	5.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	12/20/2006		36.35	4.23	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	3/29/2007		36.06	4.52	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
	6/11/2007		36.02	4.56	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h,i
	9/7/2007		35.18	5.40	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/12/2007		35.96	4.62	0.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/7/2008		36.28	4.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	6/9/2008		35.35	5.23	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h,i
	9/5/2008		35.00	5.58	0.71	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	h, i
	12/18/2008		35.95	4.63	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	b
	3/30/2009		36.38	4.20	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	9/21-22/2009		**35.77**	**4.81**	**0.8**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
MW-1B	6/3/2004	**Zone B**	25.10	14.40	--	ND<0.5	8.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.9	ND<0.5	8.1	7.9	ND<0.5	
39.50	11/23/2004		26.24	13.26	ND<0.5	ND<0.5	6.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.5	ND<0.5	8.4	8.8	ND<0.5	
	3/14/2005		33.97	5.53	ND<0.5	1.1	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.8	ND<0.5	5.2	12	ND<0.5	i
	6/15/2005		31.87	7.63	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.3	ND<0.5	8.8	9.9	ND<0.5	i
	9/19/2005		30.35	9.15	ND<0.5	0.98	0.87	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.0	ND<0.5	7.1	11	ND<0.5	i
	12/12/2005		30.39	9.11	ND<0.5	1.5	0.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	ND<0.5	7.0	12	ND<0.5	i
	3/13/2006		32.15	7.35	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	ND<0.5	6.8	5.2	ND<0.5	i
	6/19/2006		22.99	16.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	ND<0.5	7.8	6.2	ND<0.5	
	9/20/2006		30.32	9.18	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.9	ND<0.5	11	10	ND<0.5	i

TABLE 3

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft amsl)	*Depth to Water* (ft, TOC)	*Chlorobenzene* (µg/L)	*Chloroethane* (µg/L)	*Chloroform* (µg/L)	*1,1,2,2,-Tetra-chloroethane* (µg/L)	*(PCE) Tetrachloroethene* (µg/L)	*(TCE) Trichloroethene* (µg/L)	*1,2-Dichlorobenzene* (µg/L)	*cis-1,2-Dichloroethene* (µg/L)	*trans-1,2-Dichloroethene* (µg/L)	*1,1-Dichloroethane* (µg/L)	*(1,2-DCA) 1,2-Dichloroethane* (µg/L)	*Vinyl Chloride* (µg/L)	*Notes*
	12/20/2006		31.60	7.90	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.9	ND<0.5	7.7	7.8	ND<0.5	
MW-1B	3/29/2007		24.63	14.87	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.0	ND<0.5	9.7	8.7	ND<0.5	
cont.	6/11/2007		26.39	13.11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.5	ND<0.5	8.0	6.5	ND<0.5	i
	9/7/2007		28.42	11.08	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.8	ND<0.5	8.6	7.0	ND<0.5	
	12/12/2007		30.60	8.90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	7.2	7.5	ND<0.5	
	3/7/2008		32.48	7.02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.5	ND<0.5	8.8	5.6	ND<0.5	
	6/9/2008		30.50	9.00	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	8.9	5.3	ND<0.5	i
	9/5/2008		30.11	9.39	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	8.1	6.7	ND<0.5	
	12/18/2008		30.34	9.16	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	ND<0.5	8.2	9.3	ND<0.5	i
	3/30/2009		32.09	7.41	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	ND<0.5	10	5.8	ND<0.5	
	9/21-22/2009		**30.42**	**9.08**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**12**	**ND<0.5**	**11**	**8**	**ND<1.0**	
MW-3B	**9/21-22/2009**	**Zone B**	**31.69**	**8.93**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**i**
40.62																	
MW-4B	6/3/2004	**Zone B**	33.52	5.02	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.54	11/23/2004		34.65	3.89	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		34.78	3.76	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		33.98	4.56	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	9/19/2005		32.57	5.97	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		33.65	4.89	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		34.61	3.93	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		33.86	4.68	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		32.58	5.96	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		33.92	4.62	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		33.96	4.58	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		34.03	4.51	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		33.22	5.32	--	--	--	--	--	--	--	--	--	--	--	--	i
	12/12/2007		33.85	4.69	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		34.58	3.96	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		33.45	5.09	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		32.64	5.90	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		33.39	5.15	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		34.33	4.21	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
	9/21-22/2009		**33.34**	**5.20**													
MW-5B	6/3/2004	**Zone B**	30.16	8.82	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.98	11/23/2004		31.32	7.66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		32.71	6.27	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		31.20	7.78	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	9/19/2005		28.68	10.30	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	12/12/2005		30.65	8.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		32.87	6.11	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
	6/19/2006		30.97	8.01	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5B	9/20/2006		29.68	9.30	--	--	--	--	--	--	--	--	--	--	--	--	
cont.	12/20/2006		31.21	7.77	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.40	7.58	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		31.02	7.96	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.02	8.96	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.88	8.10	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.55	6.43	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.50	9.48	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.10	6.88	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**29.97**	**9.01**													
MW-6B	6/3/2004	**Zone B**	29.36	8.30	--	0.65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
37.66	11/23/2004		30.53	7.13	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.89	ND<0.5	ND<0.5	
	3/14/2005		31.86	5.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.5	i
	6/15/2005		30.17	7.49	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	0.66	ND<0.5	0.55	
	9/19/2005		28.83	8.83	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	1.2	ND<0.5	1.1	ND<0.5	1.1	
	12/12/2005		29.85	7.81	ND<0.5	2.3	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	1.3	ND<0.5	ND<0.5	h,i
	3/13/2006		32.31	5.35	ND<0.5	0.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	6/19/2006		29.88	7.78	ND<0.5	0.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.52	ND<0.5	ND<0.5	h
	9/20/2006		28.78	8.88	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h,i
	12/20/2006		30.34	7.32	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	0.69	ND<0.5	ND<0.5	h
	3/29/2007		30.44	7.22	ND<0.5	1.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.76	ND<0.5	ND<0.5	
	6/11/2007		29.93	7.73	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h
	9/7/2007		28.95	8.71	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	0.66	ND<0.5	ND<0.5	h
	12/12/2007		30.00	7.66	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	0.62	ND<0.5	ND<0.5	h
	3/7/2008		31.70	5.96	ND<0.5	1.1	ND<0.5	16	ND<0.5	ND<0.5	1.2	1.0	ND<0.5	0.58	ND<0.5	ND<0.5	h
	6/9/2008		29.36	8.30	ND<1.0	1.8	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	9/5/2008		28.66	9.00	ND<5.0	0.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/18/2008		29.68	7.98	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	b,h
	3/30/2009		31.31	6.35	ND<0.5	0.96	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	9/21-22/2009		**28.94**	**8.72**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**1.40**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
MW-7B	**9/21-22/2009**	**Zone B**	**30.73**	**9.32**	**0.82**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
40.05																	
MW-1C	6/3/2004	**Zone C**	30.07	9.42	--	ND<0.5	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
39.49	11/23/2004		31.30	8.19	ND<0.5	ND<0.5	0.56	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		32.58	6.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		30.89	8.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/19/2005		29.19	10.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		30.54	8.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		32.99	6.50	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.66	8.83	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.53	9.96	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.13	8.36	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.19	8.30	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 3

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft amsl)	*Depth to Water* (ft, TOC)	*Chlorobenzene* (µg/L)	*Chloroethane* (µg/L)	*Chloroform* (µg/L)	*1,1,2,2,-Tetra-chloroethane* (µg/L)	*(PCE) Tetrachloroethene* (µg/L)	*(TCE) Trichloroethene* (µg/L)	*1,2-Dichlorobenzene* (µg/L)	*cis-1,2-Dichloroethene* (µg/L)	*trans-1,2-Dichloroethene* (µg/L)	*1,1-Dichloroethane* (µg/L)	*(1,2-DCA) 1,2-Dichloroethane* (µg/L)	*Vinyl Chloride* (µg/L)	*Notes*
	6/11/2007		30.63	8.86	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1C	9/7/2007		29.60	9.89	--	--	--	--	--	--	--	--	--	--	--	--	
cont.	12/12/2007		30.61	8.88	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.46	7.03	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.07	9.42	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.34	10.15	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.28	9.21	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.12	7.37	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**29.59**	**9.90**													
MW-3C	**9/21-22/2009**	**Zone C**	**29.52**	**11.48**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**i**
41.00																	
MW-4C	6/3/2004	**Zone C**	30.10	8.40	--	ND<0.5	0.84	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.50	11/23/2004		31.31	7.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		33.15	5.35	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		30.85	7.65	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/19/2005		25.97	12.53	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	12/12/2005		30.00	8.50	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		31.18	7.32	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.90	7.60	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.91	8.59	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.29	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.29	7.21	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.93	7.57	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.20	8.30	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		31.10	7.40	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.25	6.25	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.35	8.15	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.62	8.88	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.31	8.19	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		31.59	6.91	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**30.08**	**8.42**													
MW-6C	6/3/2004	**Zone C**	27.89	9.70	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	ND<0.5	0.61	ND<0.5	ND<0.5	
37.59	11/23/2004		29.21	8.38	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		31.79	5.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	1.9	ND<0.5	12	ND<0.5	1.1	ND<0.5	2.3	
	6/15/2005		30.14	7.45	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.1	3.1	ND<0.5	20	0.64	1.4	ND<0.5	5.7	
	9/19/2005		28.79	8.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.9	3.0	ND<0.5	18	0.57	1.3	ND<0.5	6.8	
	12/12/2005		29.81	7.78	ND<0.5	0.66	ND<0.5	ND<0.5	3.2	3.0	ND<0.5	19	0.61	1.4	ND<0.5	10	
	3/13/2006		32.09	5.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.2	3.9	ND<0.5	26	0.61	0.95	ND<0.5	5.1	
	6/19/2006		29.84	7.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.0	3.4	ND<0.5	32	0.78	0.96	ND<0.5	11	
	9/20/2006		28.74	8.85	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	4.6	ND<0.5	23	0.76	1.0	ND<0.5	9.4	i

TABLE 3

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft amsl)	*Depth to Water* (ft, TOC)	*Chlorobenzene* (µg/L)	*Chloroethane* (µg/L)	*Chloroform* (µg/L)	*1,1,2,2,-Tetra-chloroethane* (µg/L)	*(PCE) Tetrachloroethene* (µg/L)	*(TCE) Trichloroethene* (µg/L)	*1,2-Dichlorobenzene* (µg/L)	*cis-1,2-Dichloroethene* (µg/L)	*trans-1,2-Dichloroethene* (µg/L)	*1,1-Dichloroethane* (µg/L)	*(1,2-DCA) 1,2-Dichloroethane* (µg/L)	*Vinyl Chloride* (µg/L)	*Notes*
	12/20/2006		30.29	7.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.1	4.6	ND<0.5	36	0.88	0.92	ND<0.5	13	
MW-6C	3/29/2007		30.39	7.20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.0	6.4	ND<0.5	35	1.2	1.1	ND<0.5	5.3	
cont.	6/11/2007		29.86	7.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	6.4	ND<0.5	26	0.99	0.85	ND<0.5	4.0	
	9/7/2007		28.92	8.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	6.9	ND<0.5	32	0.99	0.90	ND<0.5	4.2	
	12/12/2007		29.94	7.65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.0	5.2	ND<0.5	29	0.84	0.87	ND<0.5	3.8	
	3/7/2008		31.63	5.96	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	5.5	ND<0.5	28	0.90	0.78	ND<0.5	3.2	
	6/9/2008		29.32	8.27	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.5	5.5	ND<0.5	23	0.72	0.71	ND<0.5	3.5	
	9/5/2008		28.60	8.99	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.3	4.2	ND<0.5	ND<0.5	ND<0.5	0.57	ND<0.5	1.2	
	12/18/2008		29.64	7.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	4.1	ND<0.5	18	ND<0.5	0.58	ND<0.5	2.8	
	3/30/2009		31.26	6.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.6	5.0	ND<0.5	22	0.58	0.57	ND<0.5	3.5	
	9/21-22/2009		**28.89**	**8.70**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**3.1**	**3.4**	**ND<0.5**	**17**	**ND<0.5**	**0.56**	**ND<0.5**	**1.3**	
MW-7C	**9/21-22/2009**	**Zone C**	**29.53**	**10.91**	**2.8**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**1.1**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
40.44																	

Abbreviations and Notes:

µg/L = micrograms per liter; equivalent to parts per billion
ft = measured in feet
ft amsl = measured in feet above mean sea level
TOC = Top of casing elevation in feet above mean sea level (msl)
Halogenated Volatile Organic Compounds analyzed by EPA Method SW8260B, reported EPA Method 8010 basic target list.
ND<0.5 = Not Detected above detection limit cited.
-- = Not available, not applicable, not analyzed, not measured
b = sample diluted due to high organic content
i = liquid sample that contains greater than ~1 vol. % sediment
h = lighter than water immiscible sheen/product is present
j = sample diluted due to high organic content/matrix interference

TABLE 4

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
EXPANDED ANALYTES/SAMPLED SEPTEMBER 21-22, 2009
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Analyte	*Well ID (Zone)* MW-1A (A)	MW-2A (A)	MW-3A (A)	MW-4A (A)	MW-6A (A)	MW-7A (A)	MW-1B (B)	MW-3B (B)	MW-4B (B)	MW-5B (B)	MW-6B (B)	MW-7B (B)	MW-1C (C)	MW-3C (C)	MW-4C (C)	MW-6C (C)	MW-7C (C)	*Unit*
Bromide	0.18	ND<0.1 a	0.20 a	0.30 a	0.34	0.69	1.0	1.5 a	0.27 a	0.35 a	0.32	0.67	0.38	0.84 a	0.65 a	0.41	1.2	mg/L
Chloride	13	12 a	47 a	45 a	35	40	180	230 a	31 a	27 a	24	92	150	230 a	86 a	48	220	mg/L
Nitrate (N)	ND<0.1	ND<0.1 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	6.4 a	3.7 a	0.59 a	ND<0.1	ND<0.1	37	51 a	27 a	6.3	0.67	mg/L
Nitrate ($NO3^-$)	ND<0.45	ND<0.45 a	ND<0.45 a	ND<0.45 a	ND<0.45	ND<0.45	ND<0.45	28 a	16 a	2.6 a	ND<0.45	ND<0.45	160	230 a	120 a	28	2.9	mg/L
Nitrite (N)	ND<0.1	ND<0.1 a	ND<0.1 a	1.0 a	ND<0.1	ND<0.1	ND<0.1	0.14 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	0.15 a	ND<0.1 a	ND<0.1	0.21	mg/L
Phosphate (P)	1.4	ND<0.1 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	ND<0.1 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	mg/L
Sulfate	2.3	27 a	0.32 a	34 a	ND<0.1	0.20	19	93 a	17 a	20 a	0.53	19	58	86 a	60 a	18	49	mg/L
Alkalinity (Total*)	93.2	206 a	408 a	225 a	469	494	659	394 a	291 a	276 a	598	625	164	228 a	192 a	500	547	mg $CaCO_3$/L
Carbonate*	ND<1.0	ND<1.0 a	ND<1.0 a	61.6 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	mg $CaCO_3$/L
Bicarbonate*	93.2	206 a	408 a	ND<1.0 a	469	494	659	394 a	291 a	276 a	598	625	164	228 a	192 a	500	547	mg $CaCO_3$/L
Hydroxide*	ND<1.0	ND<1.0 a	ND<1.0 a	164 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	mg $CaCO_3$/L
Calcium	3,100	60,000 a	60,000 a	57,000 a	61,000	60,000	110,000	86,000 a	50,000 a	46,000 a	98,000	91,000	91,000	290,000 a	57,000 a	84,000	100,000	µg/L
Iron	5,700	16,000 a	46,000 a	1,800 a	48,000	97,000	5,700	190,000 a	110,000 a	51,000 a	18,000	34,000	5,200	460,000 a	14,000 a	19,000	130,000	µg/L
Magnesium	2,000	17,000 a	35,000 a	500 a	43,000	62,000	71,000	77,000 a	42,000 a	30,000 a	48,000	68,000	37,000	270,000 a	31,000 a	39,000	94,000	µg/L
Manganese	280	370 a	13,000 a	34 a	11,000	10,000	680	4,000 a	2,400 a	1,300 a	7,500	3,600	110	21,000 a	370 a	360	5,100	µg/L
Potassium	590	5,200 a	9,400 a	6,300 a	1,700	2,800	2,700	26,000 a	11,000 a	5,800 a	1,200	9,800	1,900	59,000 a	2,900 a	2,800	17,000	µg/L
Sodium	51,000	12,000 a	49,000 a	72,000 a	66,000	89,000	150,000	210,000 a	74,000 a	73,000 a	84,000	120,000	110,000	230,000 a	96,000 a	110,000	170,000	µg/L
Total Ammonia (N)	ND<0.2	ND<0.2 a	1.2 a	2.2 a	ND<0.2	ND<0.2	ND<0.2	ND<0.2 a	ND<0.2 a	ND<0.2 a	ND<0.2	ND<0.2	ND<0.2	ND<0.2 a	ND<0.2 a	ND<0.2	ND<0.2	mg/L
BOD	4.5	ND<4.0 a	42 a	ND<4.0 a	12	34	ND<4.0	5.8 a	ND<4.0 a	ND<4.0 a	16	14	ND<4.0	6.0	ND<4.0 a	ND<4.0	8.8	mg/L
COD	52	27 a	110 a	30 a	94	110	12	30 a	ND<10 a	ND<10 a	49	110	ND<10	98 a	ND<10 a	ND<10	100	mg/L
DOC	13	3.6 a	17 a	7.8 a	21	25	3.6	2.5 a	1.2 a	0.89 a	9.1	6.1	1.0	1.2 a	0.90 a	2.4	12	mg/L
Ethane	4.4	2.5 a	ND<0.5 a	ND<0.5 a	5.4	ND<0.5	ND<0.5	ND<0.5 a	ND<0.5 a	ND<0.5 a	1.9	ND<0.5	ND<0.5	ND<0.5 a	ND<0.5 a	0.62	ND<0.5	µg/L
Ethene	ND<0.5	ND<0.5 a	ND<0.5 a	ND<0.5 a	ND<0.5	ND<0.5	ND<0.5	0.57 a	ND<0.5 a	ND< 0.5 a	ND<0.5	ND<0.5	ND<0.5	1.0 a	ND<0.5 a	ND<0.5	1.2	µg/L
Methane	1,500	280 a	12,000 a	21 a	1,900	6,800	17	1.3 a	9.7 a	2.1 a	2,900	2.5	ND<0.4	1.4 a	46 a	48	1,400	µg/L
Sulfide	0.38	ND<0.05 a	ND<0.05 a	ND<0.05 a	ND<0.05	ND<0.05	ND<0.05	ND<0.05 a	ND<0.05 a	ND<0.05 a	ND<0.05	ND<0.05	ND<0.05	ND<0.05 a	ND<0.05 a	ND<0.05	ND<0.05	mg/L
TDS	222	295 a	432 a	374 a	498	524	961	906 a	409 a	360 a	629	734	828	933 a	593 a	697	894	mg/L
TOC	13	3.6 a	17 a	7.7 a	20	24	4.0	2.5 a	1.3 a	0.91 a	9.7	6.1	0.92	1.2 a	0.93 a	2.8	11	mg/L
O_{18}/O_{16} Isotope	-5.55	--	--	-7.80	-8.28	--	-5.80	--	-8.47	--	-6.64	--	-5.94	--	-6.01	-6.04	--	$^{U}/_{00}$

Abbreviations and Notes:

µg/L = micrograms per liter - approximately equal to parts per billion = ppb
mg/L = milligrams per liter
$^{U}/_{00}$ = parts per mille (equivalent to parts per thousand)
(X) = Zone X
ft = measured in feet
BOD = Biological oxygen demand
COD = Chemical oxygen demand
DOC = Dissolved organic carbon
TDS = Total dissolved solids
TOC = Total organic carbon
ND<50 = Not Detected above detection limit cited.
-- = Not available, not applicable, not analyzed, not measured
Substance (X) = Substance reported as X
* = water samples reported in mg calcium carbonate/L. Hydroxide, carbonate & bicarbonate alkalinity @ end-point of pH = 8.3 & 4.5 per SM2320B
a = Aqueous sample that contains greater than 1 vol. % sediment
O_{18}/O_{16} Isotope analysis by Laser Spectroscopy

APPENDIX A

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

Conestoga-Rovers & Associates

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Cambria's specific field procedures are summarized below.

Groundwater Elevation Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain non-aqueous phase liquid (NAPL) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of NAPL, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be measured last. In wells with a history of NAPL, the NAPL level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of NAPL or floating NAPL globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no NAPL is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or Wattera™) or down-hole pump (e.g. Grundfos™ or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until groundwater parameters of temperature, pH, and conductivity have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall be measured and recorded at least once per well casing volume removed. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) shall also be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged. If the well is slow to recharge, a sample shall be collected after the water column is allowed to recharge to 80% of the pre-purging static water level. If the well does not recover to 80% in 2 hours, a sample shall be collected once there is enough groundwater in the well. Groundwater samples shall be collected using clean disposable bailers or pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and disposable tubing or bailers shall be

used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. A copy of the COC shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Waste Handling and Disposal

Groundwater extracted during sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums and shall be labeled with the contents, date of generation, generator identification, and consultant contact. Extracted groundwater may be disposed offsite by a licensed waste handler or may be treated and discharged via an operating onsite groundwater extraction/treatment system.

APPENDIX B

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
5900 Hollis St, Suite A		Date Received: 09/21/09
Emeryville, CA 94608	Client Contact: Mark Jonas	Date Reported: 10/06/09
	Client P.O.:	Date Completed: 10/06/09

WorkOrder: 0909601

October 06, 2009

Dear Mark:

Enclosed within are:

1) The results of the **9** analyzed samples from your project: **#521000; John Nady,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

0909601

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY ☒
GeoTracker EDF ☒ PDF ☐ Excel ☐ Write On (DW) ☐
Check if sample is effluent and "J" flag is required

Report To: Mark Jonas
Company: Conestoga-Rovers & Associates
5900 Hollis St., Ste. A
Emeryville, CA
Tele: (510) 420-3307
Project #: 521000
Project Location: 1137 - 1167 65th St., Oakland, CA
Sampler Signature: Muskan Environmental Sampling

Bill To: Conestoga-Rovers & Associates
E-Mail: mjonas@craworld.com cheeg@craworld.com
Fax: (510) 420-9170
Project Name: John Nady

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: ICE	HCL	HNO_3	Other
MW-1A		9/21/09	3:45	X	VOA's	X					X	X	X	X
MW-1B			3:20											
MW-1C			3:05											
MW-6A			10:00											
MW-6B			9:20											
MW-6C			8:40											
MW-7A			12:15											
MW-7B			11:25											
MW-7C			10:45											

Analysis Request

TPH g/ss (8015m) BTEX (8021m)	TPHd/mo (8015m with silica gel cleanup)	TPHss, TPHg, fuel fingerprint (8015m)	TPHd/mo (8015m) with silica gel cleanup, fuel fingerprint Ethanol, Ethene, Methane (RSK175)	(2008) Iron, Manganese, sodium, Inorganic Ca, Na, Cl, Fe, K, Mg, SO_4^{-2} (300.1) Inorganic Anions: Bromide, Chloride, Nitrate as N, Nitrite as N, Phosphate as P, Sulfate	(376.2) Sulfide	Total Dissolved Solids (160.1)	Biochemical Oxygen Demand (405.1)	Chemical Oxygen Demand (410.4)	Total Organic Carbon (415.3)	Dissolved Organic Carbon (415.3)	Total Alkalinity (310.1)	Ammonia (350.1)	HVOCs 8010
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
				X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By:	Date:	Time:	Received By:
	9/21/09	1802	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/ yes 11.9°C
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB NA
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB NA

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:

Other

Comments: Filter Samples for Metals analysis: Yes / No

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0909601 **ClientCode: CETE**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc: chee@craworld.com
PO:
ProjectNo: #521000; John Nady

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **09/21/2009**
Date Printed: **09/23/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0909601-001	MW-1A	Water	9/21/2009 15:45	☐	E	N	L	D	M	H	I	K	A	A	C	F
0909601-002	MW-1B	Water	9/21/2009 15:20	☐	E	N	L	D	M	H	I	K			C	F
0909601-003	MW-1C	Water	9/21/2009 15:05	☐	E		L	D	M	H	I	K			C	F
0909601-004	MW-6A	Water	9/21/2009 10:00	☐	E	N	L	D	M	H	I	K	A		C	F
0909601-005	MW-6B	Water	9/21/2009 9:20	☐	E	N	L	D	M	H	I	K	A		C	F
0909601-006	MW-6C	Water	9/21/2009 8:40	☐	E	N	L	D	M	H	I	K			C	F
0909601-007	MW-7A	Water	9/21/2009 12:15	☐	E	N	L	D	M	H	I	K	A		C	F
0909601-008	MW-7B	Water	9/21/2009 11:25	☐	E	N	L	D	M	H	I	K	A		C	F
0909601-009	MW-7C	Water	9/21/2009 10:45	☐	E	N	L	D	M	H	I	K	A		C	F

Test Legend:

1	300_1_W	2	8010BMS_W	3	Alka(spe)_W	4	ALKIMET_W	5	AMMONIA_W
6	BOD_W	7	COD-410_4_W	8	DOC_W	9	G-MBTEX_W	10	PREDF REPORT
11	RSK174_W	12	SULFIDE_W						

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0909601 **ClientCode: CETE**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc: chee@craworld.com
PO:
ProjectNo: #521000; John Nady

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **09/21/2009**
Date Printed: **09/23/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					13	14	15	16	17	18	19	20	21	22	23	24
0909601-001	MW-1A	Water	9/21/2009 15:45	☐	G	J	B	B								
0909601-002	MW-1B	Water	9/21/2009 15:20	☐	G	J										
0909601-003	MW-1C	Water	9/21/2009 15:05	☐	G	J										
0909601-004	MW-6A	Water	9/21/2009 10:00	☐	G	J	B	B								
0909601-005	MW-6B	Water	9/21/2009 9:20	☐	G	J	B	B								
0909601-006	MW-6C	Water	9/21/2009 8:40	☐	G	J										
0909601-007	MW-7A	Water	9/21/2009 12:15	☐	G	J	B	B								
0909601-008	MW-7B	Water	9/21/2009 11:25	☐	G	J	B	B								
0909601-009	MW-7C	Water	9/21/2009 10:45	☐	G	J	B	B								

Test Legend:

13	TDS-160_1_W	14	TOC_W	15	TPH(DMO)WSG_W	16	TPH(FF)WSG_W	17	
18		19		20		21		22	
23		24							

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**
Date and Time Received: **9/21/2009 7:03:47 PM**

Project Name: **#521000; John Nady**
Checklist completed and reviewed by: Samantha Arbuckle

WorkOrder N°: **0909601** Matrix Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 11.9°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/22/09

Inorganic Anions by IC*

Extraction Method: E300.1 Analytical Method: E300.1 Work Order: 0909601

Lab ID	0909601-001E	0909601-002E	0909601-003E	0909601-004E	Reporting Limit for DF =1	
Client ID	MW-1A	MW-1B	MW-1C	MW-6A		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	mg/L
Bromide	0.18	1.0	0.38	0.34	NA	0.1
Chloride	13	180	150	35	NA	0.1
Nitrate as N	ND	ND	37	ND	NA	0.1
Nitrate as $NO3^-$	ND	ND	160	ND	NA	0.45
Nitrite as N	ND	ND	ND	ND	NA	0.1
Phosphate as P	1.4	ND	ND	ND	NA	0.1
Sulfate	2.3	19	58	ND	NA	0.1
Surrogate Recoveries (%)						
%SS:	98	103	97	97		
Comments						

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^-$] = 4.4286 x [Nitrate as N]

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/22/09

Inorganic Anions by IC*

Extraction Method: E300.1 Analytical Method: E300.1 Work Order: 0909601

Lab ID	0909601-005E	0909601-006E	0909601-007E	0909601-008E	Reporting Limit for DF =1	
Client ID	MW-6B	MW-6C	MW-7A	MW-7B		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	mg/L
Bromide	0.32	0.41	0.69	0.67	NA	0.1
Chloride	24	48	40	92	NA	0.1
Nitrate as N	ND	6.3	ND	ND	NA	0.1
Nitrate as $NO3^-$	ND	28	ND	ND	NA	0.45
Nitrite as N	ND	ND	ND	ND	NA	0.1
Phosphate as P	ND	ND	ND	ND	NA	0.1
Sulfate	0.53	18	0.20	19	NA	0.1
Surrogate Recoveries (%)						
%SS:	97	97	95	99		
Comments						

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^-$] = 4.4286 x [Nitrate as N]

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/22/09

Inorganic Anions by IC*

Extraction Method: E300.1 Analytical Method: E300.1 Work Order: 0909601

Lab ID	0909601-009E				Reporting Limit for DF =1	
Client ID	MW-7C					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	mg/L
Bromide	1.2				NA	0.1
Chloride	220				NA	0.1
Nitrate as N	0.67				NA	0.1
Nitrate as $NO3^-$	2.9				NA	0.45
Nitrite as N	0.21				NA	0.1
Phosphate as P	ND				NA	0.1
Sulfate	49				NA	0.1
Surrogate Recoveries (%)						
%SS:	99					
Comments						

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^-$] = 4.4286 x [Nitrate as N]

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09-09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/22/09-09/24/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0909601

Lab ID	0909601-001N	0909601-002N	0909601-004N	0909601-005N	Reporting Limit for DF =1	
Client ID	MW-1A	MW-1B	MW-6A	MW-6B		
Matrix	W	W	W	W	S	W
DF	2	1	1	1		
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND<1.0	ND	ND	ND	NA	0.5
Bromoform	ND<1.0	ND	ND	ND	NA	0.5
Bromomethane	ND<1.0	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND<1.0	ND	ND	ND	NA	0.5
Chlorobenzene	ND<1.0	ND	0.93	ND	NA	0.5
Chloroethane	ND<1.0	ND	5.2	ND	NA	0.5
Chloroform	ND<1.0	ND	ND	ND	NA	0.5
Chloromethane	ND<1.0	ND	ND	ND	NA	0.5
Dibromochloromethane	ND<1.0	ND	ND	ND	NA	0.5
1,2-Dibromoethane (EDB)	ND<1.0	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	ND<1.0	ND	ND	ND	NA	0.5
1,3-Dichlorobenzene	ND<1.0	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND<1.0	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND<1.0	ND	ND	ND	NA	0.5
1,1-Dichloroethane	ND<1.0	11	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<1.0	8.0	ND	ND	NA	0.5
1,1-Dichloroethene	ND<1.0	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	9.2	12	ND	1.4	NA	0.5
trans-1,2-Dichloroethene	ND<1.0	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND<1.0	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND<1.0	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND<1.0	ND	ND	ND	NA	0.5
Freon 113	ND<20	ND	ND	ND	NA	10
Methylene chloride	ND<1.0	ND	ND	ND	NA	0.5
1,1,1,2-Tetrachloroethane	ND<1.0	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	ND	ND	ND	NA	0.5
Tetrachloroethene	5.7	ND	ND	ND	NA	0.5
1,1,1-Trichloroethane	ND<1.0	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND<1.0	ND	ND	ND	NA	0.5
Trichloroethene	2.2	ND	ND	ND	NA	0.5
Trichlorofluoromethane	ND<1.0	ND	ND	ND	NA	0.5
Vinyl Chloride	ND<1.0	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	91	91	79	78		
%SS2:	108	108	103	105		
%SS3:	104	116	80	101		
Comments	b6		b6	b6		

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

b6) lighter than water immiscible sheen/product is present

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09-09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/22/09-09/24/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0909601

Lab ID	0909601-006N	0909601-007N	0909601-008N	0909601-009N	Reporting Limit for DF =1	
Client ID	MW-6C	MW-7A	MW-7B	MW-7C		
Matrix	W	W	W	W	S	W
DF	1	1	1	1		
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND	ND	ND	ND	NA	0.5
Bromoform	ND	ND	ND	ND	NA	0.5
Bromomethane	ND	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND	ND	ND	ND	NA	0.5
Chlorobenzene	ND	0.80	0.82	2.8	NA	0.5
Chloroethane	ND	ND	ND	ND	NA	0.5
Chloroform	ND	ND	ND	ND	NA	0.5
Chloromethane	ND	ND	ND	ND	NA	0.5
Dibromochloromethane	ND	ND	ND	ND	NA	0.5
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	ND	ND	ND	1.1	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethane	0.56	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethene	ND	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	17	ND	ND	ND	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
Freon 113	ND	ND	ND	ND	NA	10
Methylene chloride	ND	ND	ND	ND	NA	0.5
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NA	0.5
Tetrachloroethene	3.1	ND	ND	ND	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND	ND	NA	0.5
Trichloroethene	3.4	ND	ND	ND	NA	0.5
Trichlorofluoromethane	ND	ND	ND	ND	NA	0.5
Vinyl Chloride	1.3	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	88	82	85	86		
%SS2:	112	99	107	106		
%SS3:	106	90	90	91		
Comments		b6	b6	b6		

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

b6) lighter than water immiscible sheen/product is present

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/23/09

Total & Speciated Alkalinity as Calcium Carbonate*

Extraction method: SM2320B Analytical methods: SM2320B Work Order: 0909601

Lab ID	Client ID	Matrix	Total*	Carbonate*	Bicarbonate*	Hydroxide*	DF	Comments
001L	MW-1A	W	93.2	ND	93.2	ND	1	
002L	MW-1B	W	659	ND	659	ND	1	
003L	MW-1C	W	164	ND	164	ND	1	
004L	MW-6A	W	469	ND	469	ND	1	
005L	MW-6B	W	598	ND	598	ND	1	
006L	MW-6C	W	500	ND	500	ND	1	
007L	MW-7A	W	494	ND	494	ND	1	
008L	MW-7B	W	625	ND	625	ND	1	
009L	MW-7C	W	547	ND	547	ND	1	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	1.0	1.0	1.0	1.0	mg CaCO3/L
	S	NA	NA	NA	NA	mg/Kg

*water samples are reported in mg calcium carbonate/L. Hydroxide, Carbonate & Bicarbonate alkalinity measure @ end-point of pH = 8.3 & 4.5 per SM2320B.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/21/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/23/09-09/25/09

ICP Metals*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 0909601

Lab ID	Client ID	Matrix	Extraction Type	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	DF	% SS	Comments
001D	MW-1A	W	TOTAL	3100	5700	2000	280	590	51,000	1	94	
002D	MW-1B	W	TOTAL	110,000	5700	71,000	680	2700	150,000	1	99	
003D	MW-1C	W	TOTAL	91,000	5200	37,000	110	1900	110,000	1	95	
004D	MW-6A	W	TOTAL	61,000	48,000	43,000	11,000	1700	66,000	1	113	
005D	MW-6B	W	TOTAL	98,000	18,000	48,000	7500	1200	84,000	1	114	
006D	MW-6C	W	TOTAL	84,000	19,000	39,000	360	2800	110,000	1	99	
007D	MW-7A	W	TOTAL	60,000	97,000	62,000	10,000	2800	89,000	1	116	
008D	MW-7B	W	TOTAL	91,000	34,000	68,000	3600	9800	120,000	1	119	
009D	MW-7C	W	TOTAL	100,000	130,000	94,000	5100	17,000	170,000	1	127	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	500	50	50	20	500	500	µg/L
	S	TOTAL	NA	NA	NA	NA	NA	NA	NA

*water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09

Ammonia as N*

Analytical Method: E350.1 Work Order: 0909601

Lab ID	Client ID	Matrix	Total Ammonia as N	DF	Comments
0909601-001M	MW-1A	W	ND	1	
0909601-002M	MW-1B	W	ND	1	
0909601-003M	MW-1C	W	ND	1	
0909601-004M	MW-6A	W	ND	1	
0909601-005M	MW-6B	W	ND	1	
0909601-006M	MW-6C	W	ND	1	
0909601-007M	MW-7A	W	ND	1	
0909601-008M	MW-7B	W	ND	1	
0909601-009M	MW-7C	W	ND	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 mg/L	
	S	NA	

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/21/09-09/26/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/21/09-09/26/09

Biochemical Oxygen Demand (BOD)*

Analytical Method: SM5210B Work Order: 0909601

Lab ID	Client ID	Matrix	BOD	DF	Comments
0909601-001H	MW-1A	W	4.5	1	
0909601-002H	MW-1B	W	ND	1	
0909601-003H	MW-1C	W	ND	1	
0909601-004H	MW-6A	W	12	2	
0909601-005H	MW-6B	W	16	2	
0909601-006H	MW-6C	W	ND	1	
0909601-007H	MW-7A	W	34	5	
0909601-008H	MW-7B	W	14	2	
0909601-009H	MW-7C	W	8.8	2	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	4.0 mg/L	
	S	NA	

* water samples are reported in mg/L.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09

Chemical Oxygen Demand (COD)*

Analytical Method: E410.4 Work Order: 0909601

Lab ID	Client ID	Matrix	COD	DF	Comments
0909601-001I	MW-1A	W	52	1	
0909601-002I	MW-1B	W	12	1	
0909601-003I	MW-1C	W	ND	1	
0909601-004I	MW-6A	W	94	1	
0909601-005I	MW-6B	W	49	1	
0909601-006I	MW-6C	W	ND	1	
0909601-007I	MW-7A	W	110	1	
0909601-008I	MW-7B	W	110	2	
0909601-009I	MW-7C	W	100	2	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 mg/L	
	S	NA	

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09-09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/22/09-09/24/09

Dissolved Organic Carbon (DOC)*

Analytical Method: E415.3 Work Order: 0909601

Lab ID	Client ID	Matrix	Dissolved Organic Carbon	DF	Comments
0909601-001K	MW-1A	W	13	1	
0909601-002K	MW-1B	W	3.6	1	
0909601-003K	MW-1C	W	1.0	1	
0909601-004K	MW-6A	W	21	1	
0909601-005K	MW-6B	W	9.1	1	
0909601-006K	MW-6C	W	2.4	1	
0909601-007K	MW-7A	W	25	1	
0909601-008K	MW-7B	W	6.1	1	
0909601-009K	MW-7C	W	12	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.7 mg/L	
	S	NA	

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3.

* TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon;
POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09-09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09-09/24/09

Gasoline Range (C6-C12) and Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0909601

Lab ID	0909601-001A	0909601-004A	0909601-005A	0909601-007A	Reporting Limit for DF =1	
Client ID	MW-1A	MW-6A	MW-6B	MW-7A		
Matrix	W	W	W	W		
DF	10	10	10	10	S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	2600	2100	2200	4500	NA	50
TPH(ss)	2900	2800	2900	6400	NA	50
MTBE	---	---	---	---	NA	5.0
Benzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	0.5
Toluene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	0.5
Ethylbenzene	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	0.5
Xylenes	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	0.5
Surrogate Recoveries (%)						
%SS:	104	87	90	94		
Comments	d5,b6	d5,b6	d5,b6	d5,b6		

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is present
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09-09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09-09/24/09

Gasoline Range (C6-C12) and Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX & MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0909601

					Reporting Limit for DF =1	
Lab ID	0909601-008A	0909601-009A				
Client ID	MW-7B	MW-7C				
Matrix	W	W				
DF	1	1			S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	1300	1600			NA	50
TPH(ss)	1700	2300			NA	50
MTBE	---	---			NA	5.0
Benzene	ND	ND			NA	0.5
Toluene	ND	ND			NA	0.5
Ethylbenzene	ND	ND			NA	0.5
Xylenes	2.3	2.0			NA	0.5
Surrogate Recoveries (%)						
%SS:	87	89				
Comments	d5,b6	d5,b6				

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is present
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 10/05/09-10/06/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 10/05/09-10/06/09

Light Gas Hydrocarbons*

Extraction Method: RSK 174/175 Analytical Method: RSK174/175 Work Order: 0909601

Lab ID	0909601-001C	0909601-002C	0909601-003C	0909601-004C	Reporting Limit for DF =1	
Client ID	MW-1A	MW-1B	MW-1C	MW-6A		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
Ethane	4.4	ND	ND	5.4	NA	0.5
Ethene	ND	ND	ND	ND	NA	0.5
Methane	1500	17	ND	1900	NA	0.4
Surrogate Recoveries (%)						
%SS:	N/A	N/A	N/A	N/A		
Comments						

* water samples are reported in µg/L.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 10/05/09-10/06/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 10/05/09-10/06/09

Light Gas Hydrocarbons*

Extraction Method: RSK 174/175 Analytical Method: RSK174/175 Work Order: 0909601

Lab ID	0909601-005C	0909601-006C	0909601-007C	0909601-008C	Reporting Limit for DF =1	
Client ID	MW-6B	MW-6C	MW-7A	MW-7B		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
Ethane	1.9	0.62	ND	ND	NA	0.5
Ethene	ND	ND	ND	ND	NA	0.5
Methane	2900	48	6800	2.5	NA	0.4
Surrogate Recoveries (%)						
%SS:	N/A	N/A	N/A	N/A		
Comments						

* water samples are reported in µg/L.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 10/05/09-10/06/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 10/05/09-10/06/09

Light Gas Hydrocarbons*

Extraction Method: RSK 174/175 Analytical Method: RSK174/175 Work Order: 0909601

Lab ID	0909601-009C				Reporting Limit for DF =1	
Client ID	MW-7C					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	µg/L
Ethane	ND				NA	0.5
Ethene	1.2				NA	0.5
Methane	1400				NA	0.4
Surrogate Recoveries (%)						
%SS:	N/A					
Comments						

* water samples are reported in µg/L.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/22/09

Sulfide*

Analytical Method: E376.2 Work Order: 0909601

Lab ID	Client ID	Matrix	Sulfide	DF	Comments
0909601-001F	MW-1A	W	0.38	1	
0909601-002F	MW-1B	W	ND	1	
0909601-003F	MW-1C	W	ND	1	
0909601-004F	MW-6A	W	ND	1	
0909601-005F	MW-6B	W	ND	1	
0909601-006F	MW-6C	W	ND	1	
0909601-007F	MW-7A	W	ND	1	
0909601-008F	MW-7B	W	ND	1	
0909601-009F	MW-7C	W	ND	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.05 mg/L	
	S	NA	

*water samples are reported in mg/L.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/25/09

Total Dissolved Solids*

Analytical Method: E160.1 Work Order: 0909601

Lab ID	Client ID	Matrix	Total Dissolved Solids	DF	Comments
0909601-001G	MW-1A	W	222	1	
0909601-002G	MW-1B	W	961	1	
0909601-003G	MW-1C	W	828	1	
0909601-004G	MW-6A	W	498	1	
0909601-005G	MW-6B	W	629	1	
0909601-006G	MW-6C	W	697	1	
0909601-007G	MW-7A	W	524	1	
0909601-008G	MW-7B	W	734	1	
0909601-009G	MW-7C	W	894	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 mg/L	
	S	NA	

* water samples reported in mg/L.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/22/09

Total Organic Carbon (TOC) reported as NPOC*

Analytical Method: E415.3 Work Order: 0909601

Lab ID	Client ID	Matrix	TOC	DF	Comments
0909601-001J	MW-1A	W	13	1	
0909601-002J	MW-1B	W	4.0	1	
0909601-003J	MW-1C	W	0.92	1	
0909601-004J	MW-6A	W	20	1	
0909601-005J	MW-6B	W	9.7	1	
0909601-006J	MW-6C	W	2.8	1	
0909601-007J	MW-7A	W	24	1	
0909601-008J	MW-7B	W	6.1	1	
0909601-009J	MW-7C	W	11	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.3 mg/L	
	S	NA	

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC.

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon;
POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/21/09-09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/23/09-09/26/09

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015B Work Order: 0909601

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0909601-001B	MW-1A	W	4600	ND	1	101	e11,b6
0909601-004B	MW-6A	W	7300	300	1	103	e11,e2,b6
0909601-005B	MW-6B	W	15,000	610	1	89	e11,e2,b6
0909601-007B	MW-7A	W	84,000	ND<5000	20	85	e11,b6
0909601-008B	MW-7B	W	6300	ND<500	2	84	e11,b6
0909601-009B	MW-7C	W	1900	ND	1	88	e11,b6

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is present
e2) diesel range compounds are significant; no recognizable pattern
e11) stoddard solvent/mineral spirit (?)

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/21/09-09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09-09/26/09

Fuel FingerPrint *

Extraction method SW3510C/3630C Analytical methods SW8015B Work Order: 0909601

Lab ID	Client ID	Matrix	Fuel Fingerprint
0909601-001B	MW-1A	W	This sample has a significant hydrocarbon pattern within the stoddard solvent range between C6 and C12. Chromatograms enclosed.
0909601-004B	MW-6A	W	This sample has a significant hydrocarbon pattern within the stoddard solvent range between C6 and C12. This sample also has a small pattern within the diesel range. Chromatograms enclosed.
0909601-005B	MW-6B	W	This sample has a significant hydrocarbon pattern within the stoddard solvent range between C6 and C12. This sample also has a small pattern within the diesel ranges. Chromatograms enclosed.
0909601-007B	MW-7A	W	This sample has a significant hydrocarbon pattern between C9 and C12 that resembles a stoddard solvent. Chromatograms enclosed.
0909601-008B	MW-7B	W	This sample has a significant hydrocarbon pattern between C9 and C12 that resembles stoddard solvent. Chromatograms enclosed.

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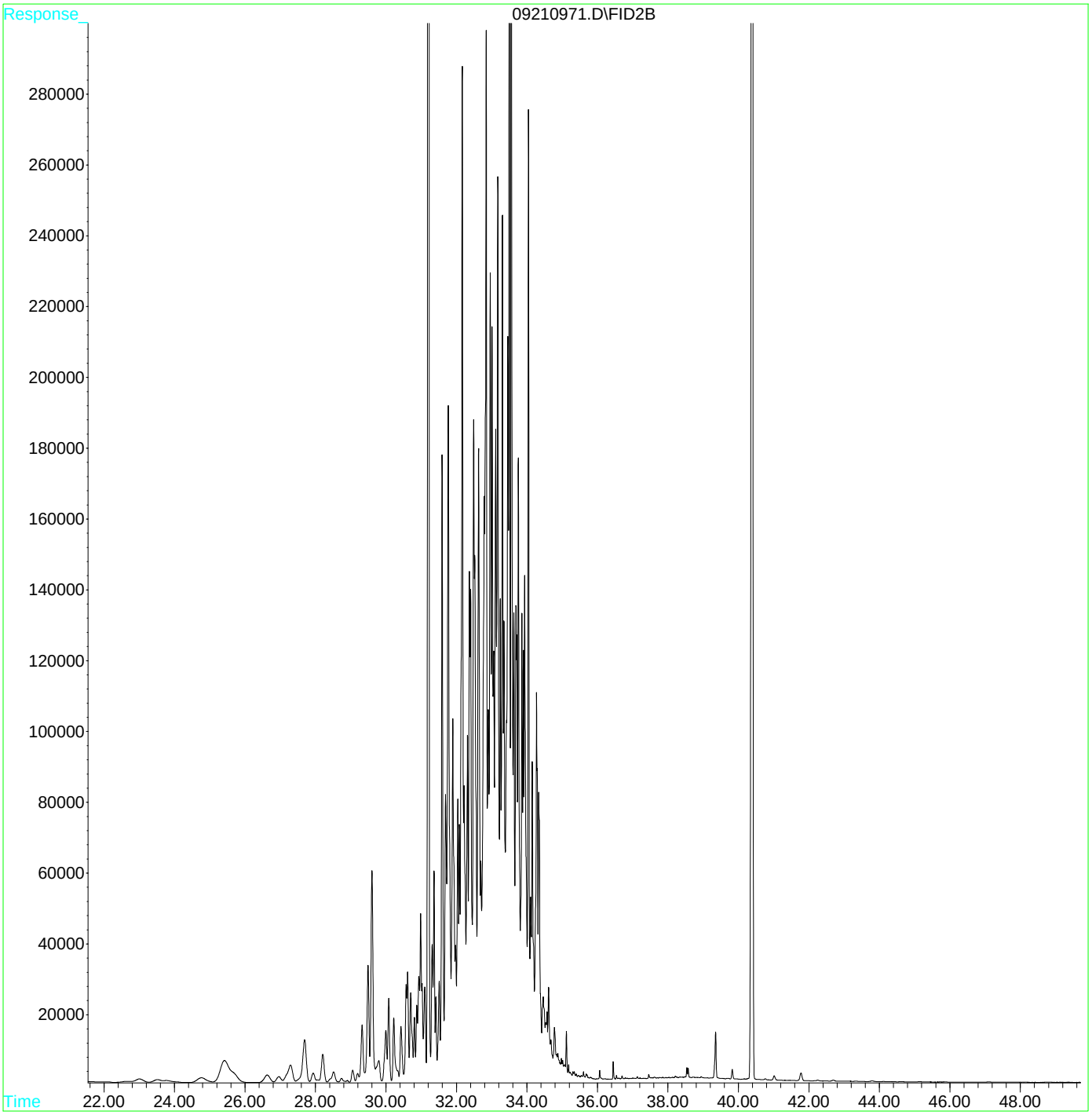
Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/21/09
		Date Received: 09/21/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/21/09-09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09-09/26/09

Fuel FingerPrint *

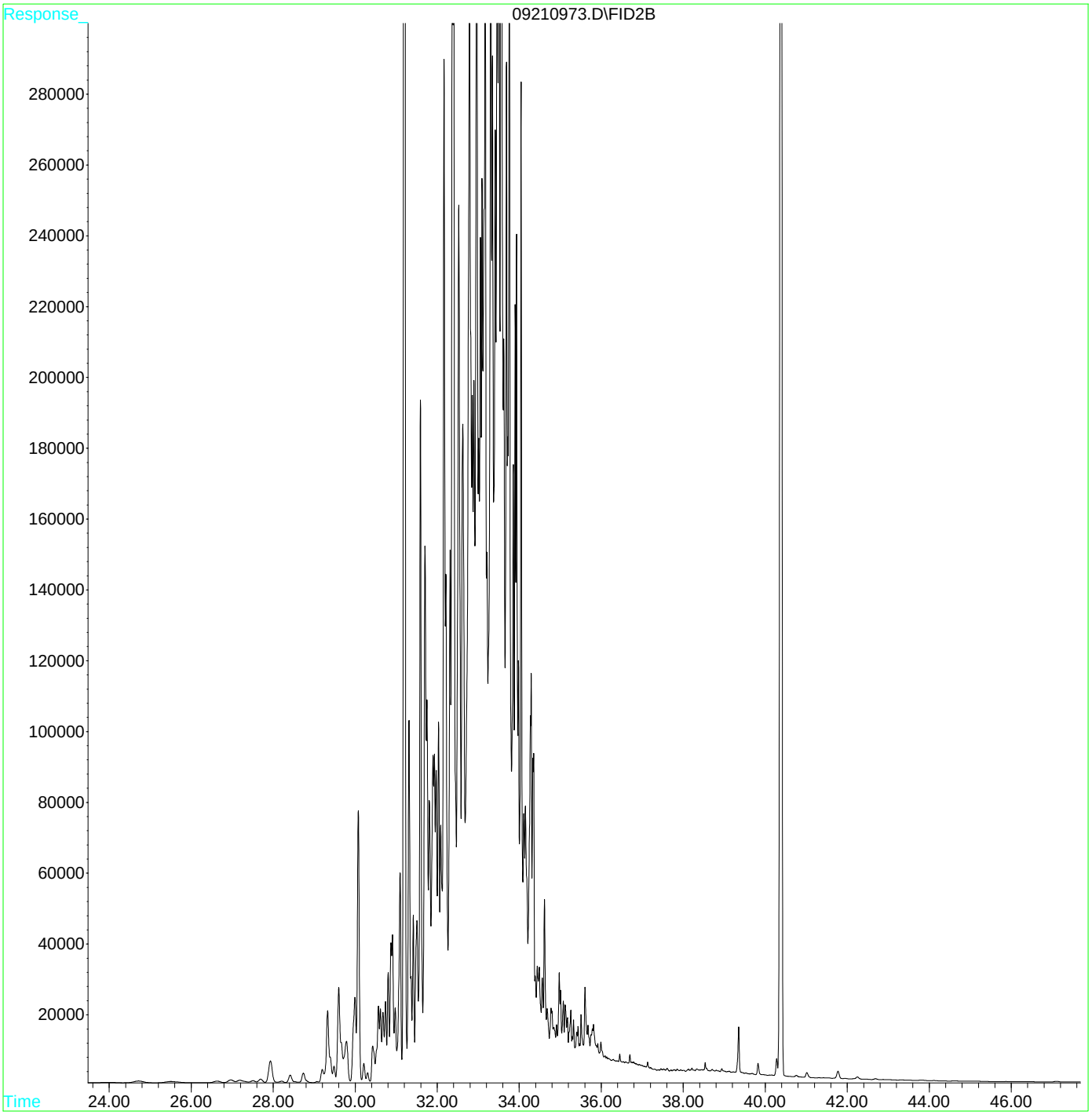
Extraction method SW3510C/3630C Analytical methods SW8015B Work Order: 0909601

Lab ID	Client ID	Matrix	Fuel Fingerprint
0909601-009B	MW-7C	W	This sample has a significant hydrocarbon pattern within the stoddard solvent range between C6 and C12. Chromatograms enclosed.

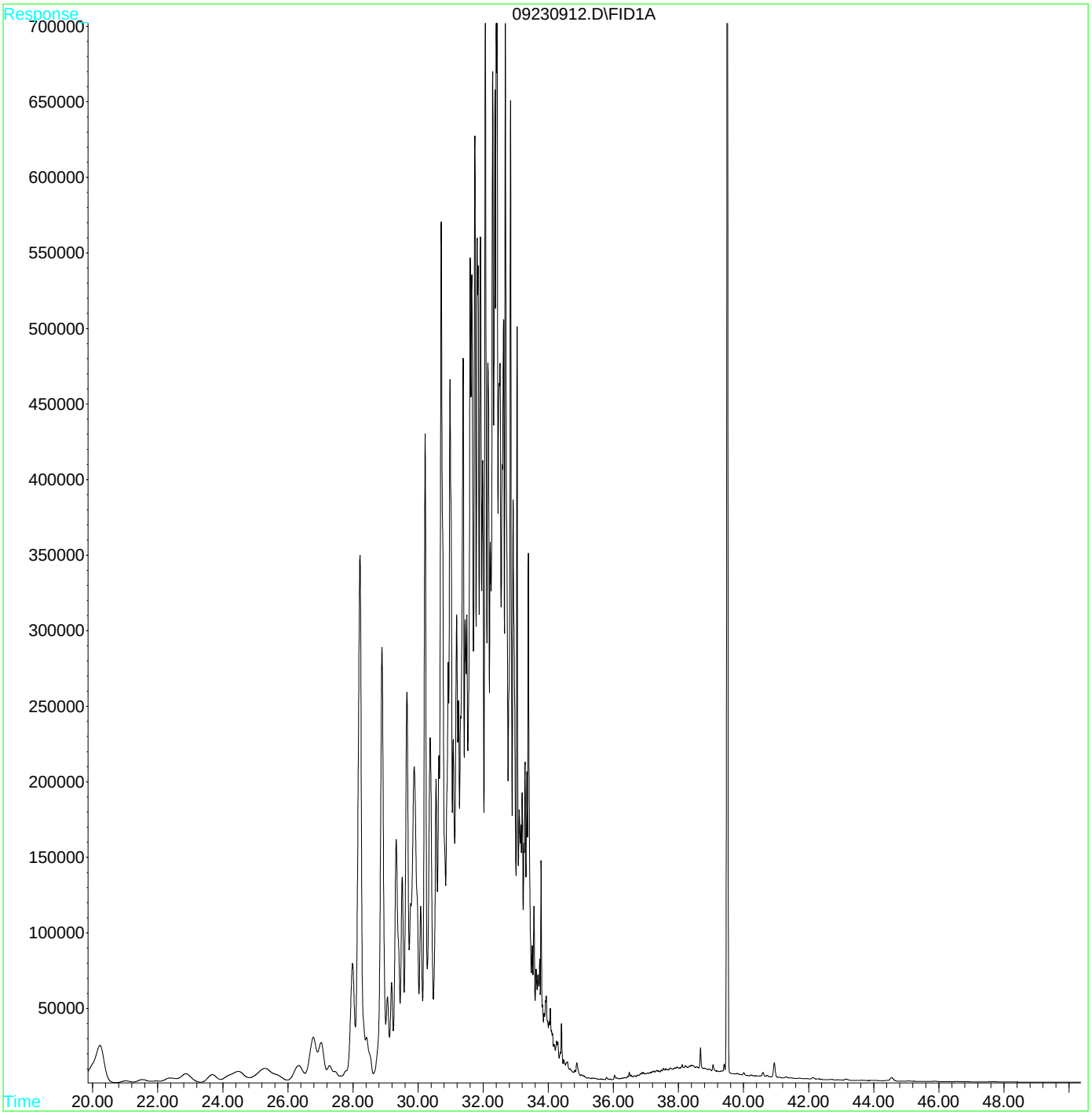
File : D:\HPCHEM\GC6\DATAB\09210971.D
Operator :
Acquired : 23 Sep 2009 6:04 am using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909601-001B W
Misc Info : TPH(DMO)WSG_W
Vial Number: 86



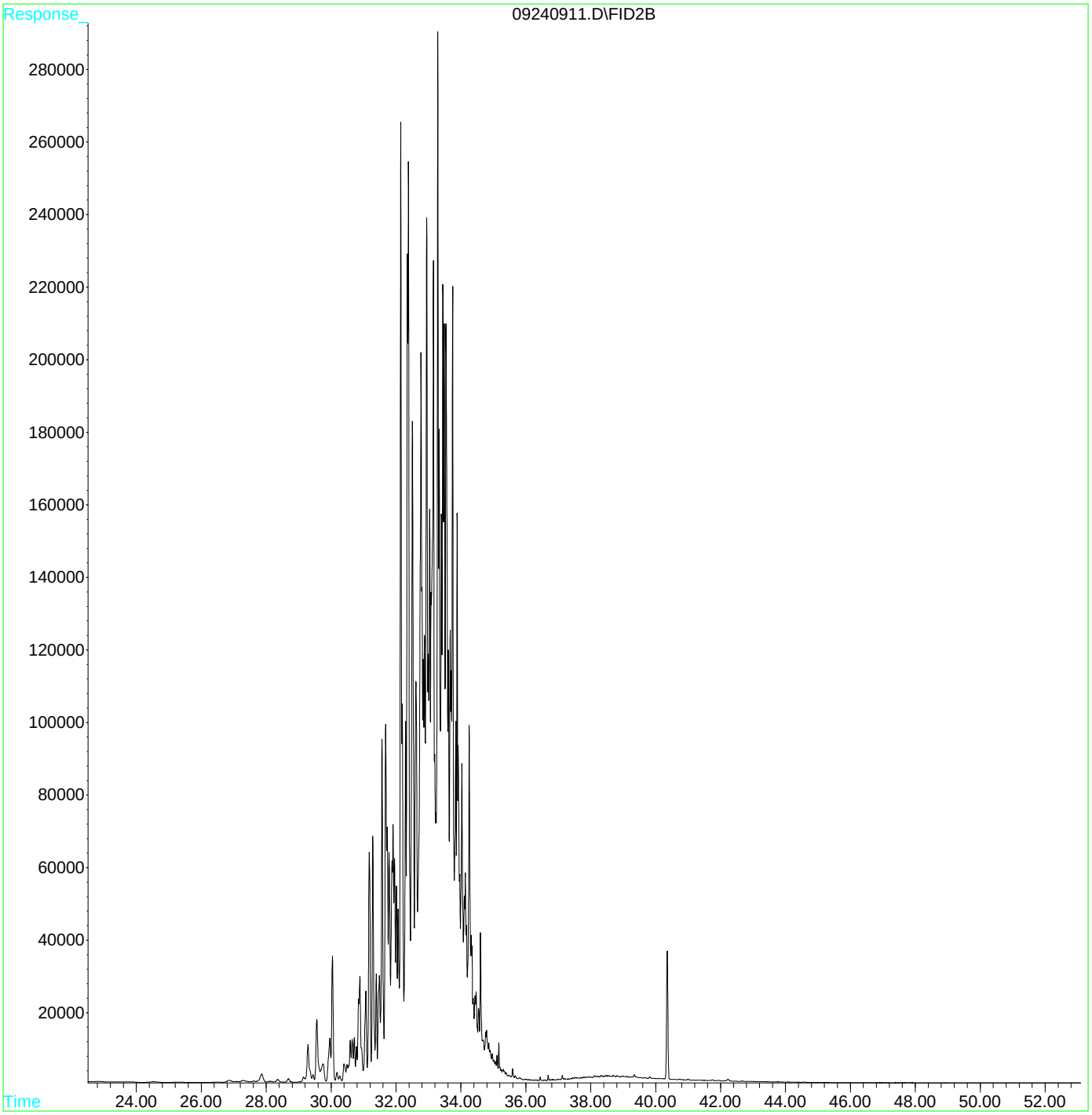
File : D:\HPCHEM\GC6\DATAB\09210973.D
Operator :
Acquired : 23 Sep 2009 7:14 am using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909601-004B W
Misc Info : TPH(DMO)WSG_W
Vial Number: 87



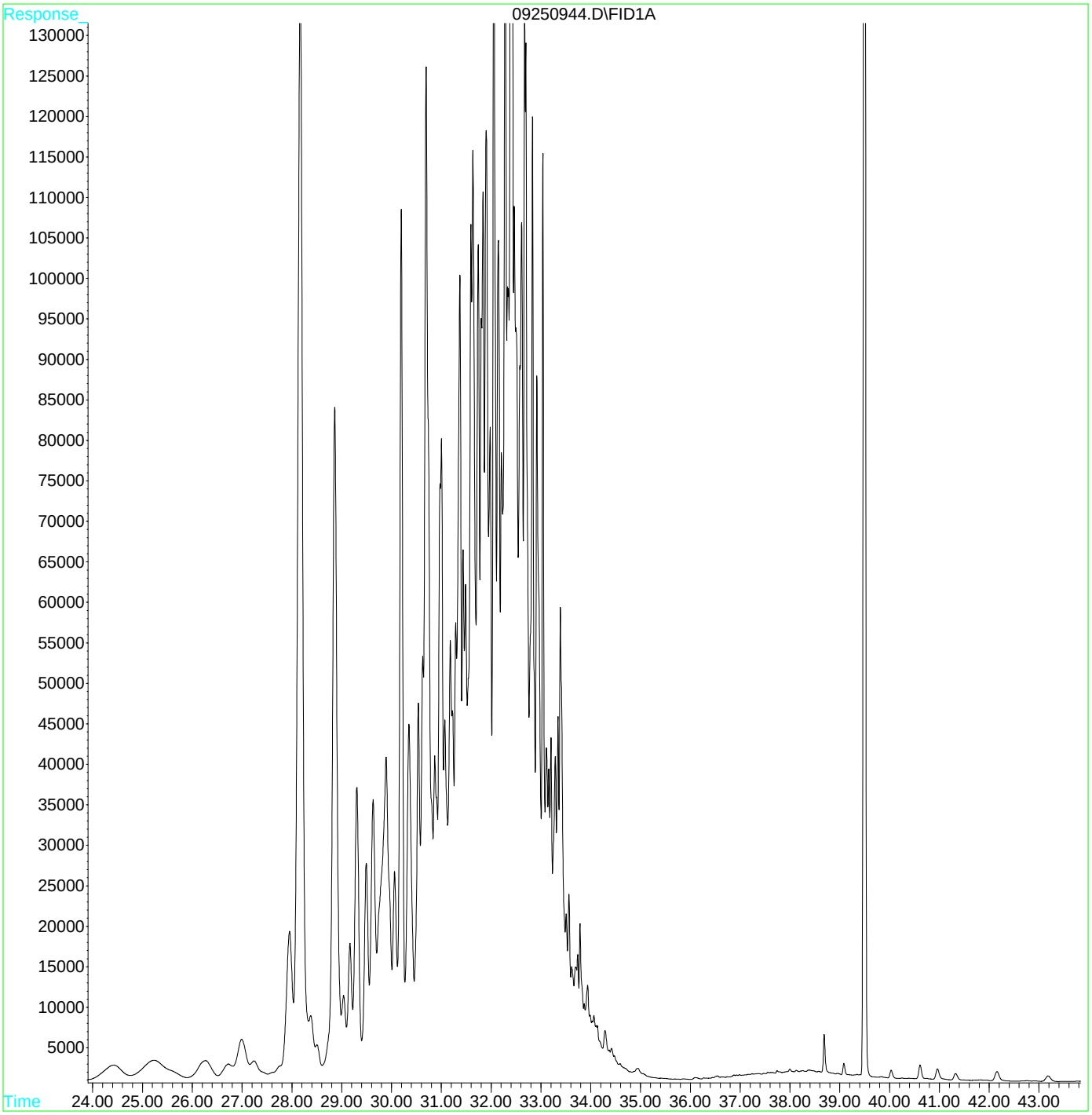
File : D:\HPCHEM\GC6\DATAA\09230912.D
Operator :
Acquired : 23 Sep 2009 9:34 pm using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909601-005B W
Misc Info : TPH(DMO)WSG_W
Vial Number: 6



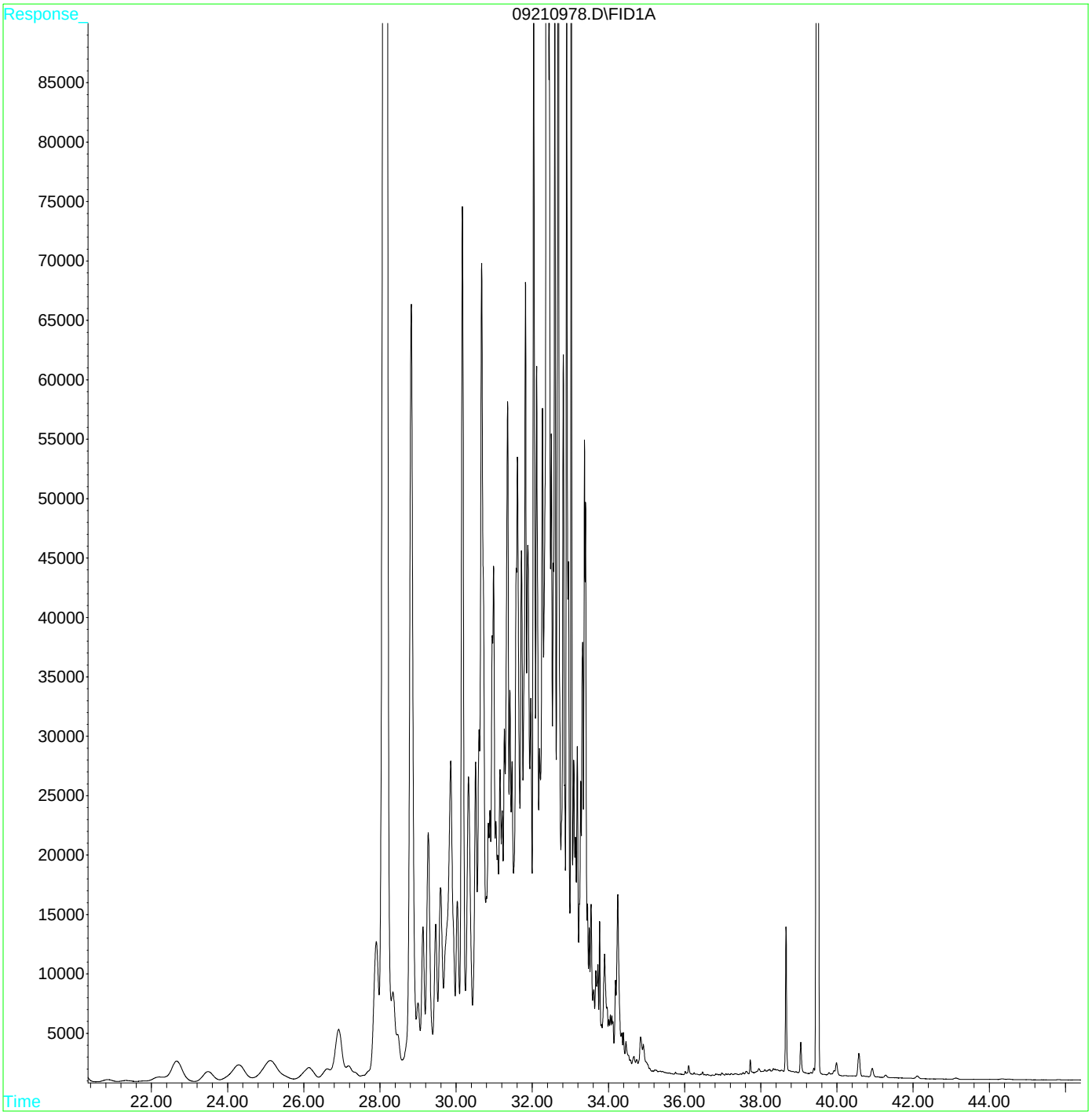
File : D:\HPCHEM\GC6\DATAB\09240911.D
Operator :
Acquired : 24 Sep 2009 9:29 pm using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909601-007A W RR
Misc Info : TPH(DMO)WSG_W
Vial Number: 56



File : D:\HPCHEM\GC6\DATAA\09250944.D
Operator :
Acquired : 26 Sep 2009 1:47 pm using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909601-008A W RE
Misc Info : TPH(D)WSG_W
Vial Number: 22



File : D:\HPCHEM\GC6\DATAA\09210978.D
Operator :
Acquired : 23 Sep 2009 9:37 am using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909601-009B W
Misc Info : TPH_D,MO W
Vial Number: 39



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QC SUMMARY REPORT FOR E350.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45870 WorkOrder 0909601

EPA Method E350.1 **Extraction E350.1** **Spiked Sample ID: 0909496-001C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Total Ammonia as N	ND	4	104	105	0.587	103	105	2.34	80 - 120	20	90 - 110	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45870 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001M	09/21/09 3:45 PM	09/23/09	09/23/09 2:22 PM	0909601-002M	09/21/09 3:20 PM	09/23/09	09/23/09 12:27 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45912 WorkOrder 0909601

EPA Method E300.1 **Extraction E300.1** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Bromide	N/A	1	N/A	N/A	N/A	95.6	95.5	0.0726	N/A	N/A	85 - 115	15
Chloride	N/A	1	N/A	N/A	N/A	97.4	97.4	0	N/A	N/A	85 - 115	15
Nitrate as N	N/A	1	N/A	N/A	N/A	96.7	96.8	0.0558	N/A	N/A	85 - 115	15
Nitrate as $NO3^{-}$	N/A	4.4	N/A	N/A	N/A	96.7	96.8	0.0558	N/A	N/A	85 - 115	15
Nitrite as N	N/A	1	N/A	N/A	N/A	98	97.1	0.876	N/A	N/A	85 - 115	15
Phosphate as P	N/A	1	N/A	N/A	N/A	94.8	97.3	2.58	N/A	N/A	85 - 115	15
Sulfate	N/A	1	N/A	N/A	N/A	109	109	0	N/A	N/A	85 - 115	15
%SS:	N/A	0.10	N/A	N/A	N/A	97	97	0	N/A	N/A	90 - 115	10

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45912 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001E	09/21/09 3:45 PM	09/22/09	09/22/09 12:08 AM	0909601-001E	09/21/09 3:45 PM	09/22/09	09/22/09 5:18 PM
0909601-002E	09/21/09 3:20 PM	09/22/09	09/22/09 12:49 AM	0909601-002E	09/21/09 3:20 PM	09/22/09	09/22/09 5:59 PM
0909601-002E	09/21/09 3:20 PM	09/22/09	09/22/09 6:39 PM	0909601-003E	09/21/09 3:05 PM	09/22/09	09/22/09 1:30 AM
0909601-003E	09/21/09 3:05 PM	09/22/09	09/22/09 7:20 PM	0909601-004E	09/21/09 10:00 AM	09/22/09	09/22/09 2:10 AM
0909601-004E	09/21/09 10:00 AM	09/22/09	09/22/09 8:01 PM	0909601-005E	09/21/09 9:20 AM	09/22/09	09/22/09 2:51 AM
0909601-005E	09/21/09 9:20 AM	09/22/09	09/22/09 8:41 PM	0909601-006E	09/21/09 8:40 AM	09/22/09	09/22/09 3:32 AM
0909601-006E	09/21/09 8:40 AM	09/22/09	09/22/09 9:22 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

surrogate diluted out of range or surrogate coelutes with another peak.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45952 WorkOrder 0909601

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0909569-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	115	118	2.49	117	116	0.973	70 - 130	20	70 - 130	20
MTBE	ND	10	112	112	0	104	113	8.24	70 - 130	20	70 - 130	20
Benzene	ND	10	112	111	0.450	111	112	0.855	70 - 130	20	70 - 130	20
Toluene	ND	10	113	112	0.351	113	113	0	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	112	113	0.600	114	113	0.299	70 - 130	20	70 - 130	20
Xylenes	ND	30	120	120	0	118	119	0.856	70 - 130	20	70 - 130	20
%SS:	99	10	95	94	0.445	96	94	1.61	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45952 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001A	09/21/09 3:45 PM	09/23/09	09/23/09 1:44 PM	0909601-004A	09/21/09 10:00 AM	09/24/09	09/24/09 11:15 AM
0909601-005A	09/21/09 9:20 AM	09/24/09	09/24/09 11:45 AM	0909601-007A	09/21/09 12:15 PM	09/24/09	09/24/09 12:46 PM
0909601-008A	09/21/09 11:25 AM	09/24/09	09/24/09 1:16 PM	0909601-009A	09/21/09 10:45 AM	09/24/09	09/24/09 2:17 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45976 WorkOrder 0909601

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0909601-003N**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	89.9	93.2	3.62	97.1	93.9	3.43	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	105	109	3.79	110	107	2.43	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	0.79	10	85.4	91.7	6.53	116	113	2.77	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	92.5	96.8	4.57	101	101	0	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	112	117	4.70	118	115	3.24	70 - 130	30	70 - 130	30
%SS1:	91	25	80	80	0	85	86	1.53	70 - 130	30	70 - 130	30
%SS2:	112	25	110	110	0	111	111	0	70 - 130	30	70 - 130	30
%SS3:	106	2.5	94	97	3.30	110	110	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45976 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001N	09/21/09 3:45 PM	09/23/09	09/23/09 1:19 PM	0909601-002N	09/21/09 3:20 PM	09/22/09	09/22/09 2:18 PM
0909601-004N	09/21/09 10:00 AM	09/24/09	09/24/09 3:47 PM	0909601-005N	09/21/09 9:20 AM	09/24/09	09/24/09 4:30 PM
0909601-006N	09/21/09 8:40 AM	09/23/09	09/23/09 3:17 AM	0909601-007N	09/21/09 12:15 PM	09/23/09	09/23/09 2:07 PM
0909601-008N	09/21/09 11:25 AM	09/23/09	09/23/09 4:43 AM	0909601-009N	09/21/09 10:45 AM	09/23/09	09/23/09 5:25 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45977 WorkOrder 0909601

EPA Method E300.1 **Extraction E300.1** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Bromide	N/A	1	N/A	N/A	N/A	91.7	91.7	0	N/A	N/A	85 - 115	15
Chloride	N/A	1	N/A	N/A	N/A	93.8	93.8	0	N/A	N/A	85 - 115	15
Nitrate as N	N/A	1	N/A	N/A	N/A	94.1	94.2	0.0849	N/A	N/A	85 - 115	15
Nitrate as $NO3^{-}$	N/A	4.4	N/A	N/A	N/A	94.1	94.2	0.0849	N/A	N/A	85 - 115	15
Nitrite as N	N/A	1	N/A	N/A	N/A	95.4	94.9	0.556	N/A	N/A	85 - 115	15
Phosphate as P	N/A	1	N/A	N/A	N/A	90.7	95.7	5.32	N/A	N/A	85 - 115	15
Sulfate	N/A	1	N/A	N/A	N/A	113	114	0.411	N/A	N/A	85 - 115	15
%SS:	N/A	0.10	N/A	N/A	N/A	96	95	0.506	N/A	N/A	90 - 115	10

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45977 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-007E	09/21/09 12:15 PM	09/22/09	09/22/09 4:13 AM	0909601-007E	09/21/09 12:15 PM	09/22/09	09/22/09 10:03 PM
0909601-008E	09/21/09 11:25 AM	09/22/09	09/22/09 4:53 AM	0909601-008E	09/21/09 11:25 AM	09/22/09	09/22/09 10:43 PM
0909601-009E	09/21/09 10:45 AM	09/22/09	09/22/09 5:34 AM	0909601-009E	09/21/09 10:45 AM	09/22/09	09/22/09 11:24 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

surrogate diluted out of range or surrogate coelutes with another peak.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR E350.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45979 WorkOrder 0909601

EPA Method E350.1 **Extraction E350.1** **Spiked Sample ID: 0909601-003M**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Total Ammonia as N	ND	4	96.4	96.6	0.175	101	100	0.168	80 - 120	20	90 - 110	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45979 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-003M	09/21/09 3:05 PM	09/23/09	09/23/09 12:31 PM	0909601-004M	09/21/09 10:00 AM	09/23/09	09/23/09 12:34 PM
0909601-005M	09/21/09 9:20 AM	09/23/09	09/23/09 12:38 PM	0909601-006M	09/21/09 8:40 AM	09/23/09	09/23/09 12:42 PM
0909601-007M	09/21/09 12:15 PM	09/23/09	09/23/09 12:45 PM	0909601-008M	09/21/09 11:25 AM	09/23/09	09/23/09 1:11 PM
0909601-009M	09/21/09 10:45 AM	09/23/09	09/23/09 1:15 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SM4500 S-2 D

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45984 WorkOrder 0909601

EPA Method E376.2 **Extraction E376.2** **Spiked Sample ID: 0909601-003F**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Sulfide	ND	2.5	106	103	2.12	101	102	1.25	75 - 125	20	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45984 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001F	09/21/09 3:45 PM	09/22/09	09/22/09 4:01 PM	0909601-002F	09/21/09 3:20 PM	09/22/09	09/22/09 4:07 PM
0909601-003F	09/21/09 3:05 PM	09/22/09	09/22/09 4:13 PM	0909601-004F	09/21/09 10:00 AM	09/22/09	09/22/09 4:19 PM
0909601-005F	09/21/09 9:20 AM	09/22/09	09/22/09 4:25 PM	0909601-006F	09/21/09 8:40 AM	09/22/09	09/22/09 4:31 PM
0909601-007F	09/21/09 12:15 PM	09/22/09	09/22/09 4:37 PM	0909601-008F	09/21/09 11:25 AM	09/22/09	09/22/09 4:43 PM
0909601-009F	09/21/09 10:45 AM	09/22/09	09/22/09 4:49 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Alkalinity **Matrix: W** **WorkOrder: 0909601**

Method Name: SM2320B Units mg CaCO3/L BatchID: 45978

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
0909601-001L	93.2	1	94.7	1	1.56	<20
0909601-002L	659	1	665	1	1.02	<20
0909601-003L	164	1	166	1	0.77	<20
0909601-004L	469	1	472	1	0.723	<20
0909601-005L	598	1	599	1	0.234	<20
0909601-006L	500	1	499	1	0.28	<20
0909601-007L	494	1	495	1	0.136	<20
0909601-008L	625	1	628	1	0.467	<20
0909601-009L	547	1	548	1	0.279	<20

BATCH 45978 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001L	09/21/09 3:45 PM	09/23/09	09/23/09 11:22 AM	0909601-002L	09/21/09 3:20 PM	09/23/09	09/23/09 11:30 AM
0909601-003L	09/21/09 3:05 PM	09/23/09	09/23/09 11:40 AM	0909601-004L	09/21/09 10:00 AM	09/23/09	09/23/09 11:48 AM
0909601-005L	09/21/09 9:20 AM	09/23/09	09/23/09 12:01 PM	0909601-006L	09/21/09 8:40 AM	09/23/09	09/23/09 2:02 PM
0909601-007L	09/21/09 12:15 PM	09/23/09	09/23/09 2:15 PM	0909601-008L	09/21/09 11:25 AM	09/23/09	09/23/09 2:27 PM
0909601-009L	09/21/09 10:45 AM	09/23/09	09/23/09 2:38 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

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QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45904 WorkOrder 0909601

EPA Method E200.7 **Extraction E200.7** **Spiked Sample ID: 0909362-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Calcium	ND	10000	97.3	97	0.299	99.9	100	0.100	70 - 130	20	85 - 115	20
Iron	ND	1000	98.8	99.2	0.475	98.4	103	4.05	70 - 130	20	85 - 115	20
Magnesium	ND	1000	97	96.9	0.0825	97.4	98.2	0.797	70 - 130	20	85 - 115	20
Manganese	ND	1000	96.7	97.7	1.01	98.5	103	4.44	70 - 130	20	85 - 115	20
Potassium	ND	10000	86.2	83.2	3.59	90.3	87.7	2.87	70 - 130	20	85 - 115	20
Sodium	ND	10000	94.6	94.9	0.296	97.5	98	0.563	70 - 130	20	85 - 115	20
%SS:	105	750	105	101	3.82	100	99	0.322	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45904 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001D	09/21/09 3:45 PM	09/21/09	09/23/09 7:16 PM	0909601-001D	09/21/09 3:45 PM	09/21/09	09/25/09 8:10 PM
0909601-002D	09/21/09 3:20 PM	09/21/09	09/23/09 7:21 PM	0909601-002D	09/21/09 3:20 PM	09/21/09	09/25/09 8:16 PM
0909601-003D	09/21/09 3:05 PM	09/21/09	09/23/09 7:27 PM	0909601-003D	09/21/09 3:05 PM	09/21/09	09/25/09 8:22 PM
0909601-004D	09/21/09 10:00 AM	09/21/09	09/23/09 7:33 PM	0909601-004D	09/21/09 10:00 AM	09/21/09	09/25/09 8:28 PM
0909601-005D	09/21/09 9:20 AM	09/21/09	09/23/09 7:39 PM	0909601-005D	09/21/09 9:20 AM	09/21/09	09/25/09 8:34 PM
0909601-006D	09/21/09 8:40 AM	09/21/09	09/23/09 7:45 PM	0909601-006D	09/21/09 8:40 AM	09/21/09	09/25/09 8:40 PM
0909601-007D	09/21/09 12:15 PM	09/21/09	09/23/09 7:50 PM	0909601-007D	09/21/09 12:15 PM	09/21/09	09/25/09 8:45 PM
0909601-008D	09/21/09 11:25 AM	09/21/09	09/23/09 7:56 PM	0909601-008D	09/21/09 11:25 AM	09/21/09	09/25/09 8:51 PM
0909601-009D	09/21/09 10:45 AM	09/21/09	09/23/09 8:02 PM	0909601-009D	09/21/09 10:45 AM	09/21/09	09/25/09 8:57 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

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QC SUMMARY REPORT FOR SM5210B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45939 WorkOrder 0909601

EPA Method SM5210B **Extraction SM5210B** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
BOD	N/A	198	N/A	N/A	N/A	96.2	96.2	0	N/A	N/A	80 - 120	16

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45939 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001H	09/21/09 3:45 PM	09/21/09	09/28/09 10:44 AM	0909601-002H	09/21/09 3:20 PM	09/21/09	09/28/09 11:05 AM
0909601-003H	09/21/09 3:05 PM	09/21/09	09/28/09 11:26 AM	0909601-004H	09/21/09 10:00 AM	09/21/09	09/28/09 11:50 AM
0909601-005H	09/21/09 9:20 AM	09/21/09	09/28/09 11:52 AM	0909601-006H	09/21/09 8:40 AM	09/21/09	09/28/09 12:10 PM
0909601-007H	09/21/09 12:15 PM	09/21/09	09/28/09 12:31 PM	0909601-008H	09/21/09 11:25 AM	09/21/09	09/28/09 12:46 PM
0909601-009H	09/21/09 10:45 AM	09/21/09	09/28/09 12:40 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45980 WorkOrder 0909601

EPA Method E410.4 **Extraction E410.4** **Spiked Sample ID: 0909601-003I**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
COD	ND	400	103	106	2.35	100	99.1	1.23	80 - 120	20	90 - 110	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45980 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001I	09/21/09 3:45 PM	09/23/09	09/23/09 12:49 PM	0909601-002I	09/21/09 3:20 PM	09/23/09	09/23/09 12:55 PM
0909601-003I	09/21/09 3:05 PM	09/23/09	09/23/09 1:01 PM	0909601-004I	09/21/09 10:00 AM	09/23/09	09/23/09 1:07 PM
0909601-005I	09/21/09 9:20 AM	09/23/09	09/23/09 1:13 PM	0909601-006I	09/21/09 8:40 AM	09/23/09	09/23/09 1:19 PM
0909601-007I	09/21/09 12:15 PM	09/23/09	09/23/09 1:25 PM	0909601-008I	09/21/09 11:25 AM	09/23/09	09/23/09 2:07 PM
0909601-009I	09/21/09 10:45 AM	09/23/09	09/23/09 2:13 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0909601

EPA Method E415.3	Extraction E415.3					BatchID: 45982				Spiked Sample ID: 0909601-001K			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	mg/L	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Dissolved Organic Carbon	13	50	107	108	0.135	60	94.3	94.2	0.0884	70 - 130	20	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45982 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001K	09/21/09 3:45 PM	09/22/09	09/22/09 6:08 PM	0909601-002K	09/21/09 3:20 PM	09/24/09	09/24/09 3:34 PM
0909601-003K	09/21/09 3:05 PM	09/22/09	09/22/09 7:05 PM	0909601-004K	09/21/09 10:00 AM	09/22/09	09/22/09 7:21 PM
0909601-005K	09/21/09 9:20 AM	09/24/09	09/24/09 3:48 PM	0909601-006K	09/21/09 8:40 AM	09/24/09	09/24/09 4:02 PM
0909601-007K	09/21/09 12:15 PM	09/22/09	09/22/09 8:29 PM	0909601-008K	09/21/09 11:25 AM	09/22/09	09/22/09 8:41 PM
0909601-009K	09/21/09 10:45 AM	09/22/09	09/22/09 8:56 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR RSK174/175

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45983 WorkOrder: 0909601

EPA Method RSK174/175 **Extraction RSK 174/175** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Ethane	N/A	2.38	N/A	N/A	N/A	88.8	94.4	6.08	N/A	N/A	80 - 120	20
Ethene	N/A	3.08	N/A	N/A	N/A	94.7	99.4	4.83	N/A	N/A	80 - 120	20
Methane	N/A	1.17	N/A	N/A	N/A	103	113	8.96	N/A	N/A	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45983 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001C	09/21/09 3:45 PM	10/06/09	10/06/09 9:59 AM	0909601-002C	09/21/09 3:20 PM	10/05/09	10/05/09 6:19 PM
0909601-003C	09/21/09 3:05 PM	10/05/09	10/05/09 6:30 PM	0909601-004C	09/21/09 10:00 AM	10/05/09	10/05/09 6:41 PM
0909601-004C	09/21/09 10:00 AM	10/05/09	10/05/09 6:52 PM	0909601-005C	09/21/09 9:20 AM	10/05/09	10/05/09 7:02 PM
0909601-005C	09/21/09 9:20 AM	10/05/09	10/05/09 7:13 PM	0909601-006C	09/21/09 8:40 AM	10/06/09	10/06/09 10:45 AM
0909601-007C	09/21/09 12:15 PM	10/06/09	10/06/09 10:56 AM	0909601-007C	09/21/09 12:15 PM	10/06/09	10/06/09 11:39 AM
0909601-008C	09/21/09 11:25 AM	10/06/09	10/06/09 11:12 AM	0909601-009C	09/21/09 10:45 AM	10/06/09	10/06/09 11:24 AM
0909601-009C	09/21/09 10:45 AM	10/06/09	10/06/09 11:51 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Total Dissolved Solids (EPA 160.1) **Matrix: W** **WorkOrder: 0909601**

Method Name: E160.1 Units mg/L BatchID: 45940

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
0909601-001G	222	1	206	2	7.48	<20
0909601-002G	961	1	956	2	0.521	<20
0909601-003G	828	1	876	2	5.63	<20
0909601-004G	498	1	500	2	0.401	<20
0909601-005G	629	1	612	2	2.74	<20
0909601-006G	697	1	680	2	2.47	<20
0909601-007G	524	1	562	2	7	<20
0909601-008G	734	1	740	2	0.814	<20
0909601-009G	894	1	868	2	2.95	<20

BATCH 45940 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001G	09/21/09 3:45 PM	09/24/09	09/25/09 1:35 PM	0909601-002G	09/21/09 3:20 PM	09/24/09	09/25/09 1:45 PM
0909601-003G	09/21/09 3:05 PM	09/24/09	09/25/09 1:55 PM	0909601-004G	09/21/09 10:00 AM	09/24/09	09/25/09 2:05 PM
0909601-005G	09/21/09 9:20 AM	09/24/09	09/25/09 2:15 PM	0909601-006G	09/21/09 8:40 AM	09/24/09	09/25/09 2:25 PM
0909601-007G	09/21/09 12:15 PM	09/24/09	09/25/09 2:35 PM	0909601-008G	09/21/09 11:25 AM	09/24/09	09/25/09 2:45 PM
0909601-009G	09/21/09 10:45 AM	09/24/09	09/25/09 2:55 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0909601

EPA Method E415.3	Extraction E415.3					BatchID: 45923				Spiked Sample ID: 0909525-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	mg/L	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TOC	22	50	113	112	0.612	60	90.9	91.1	0.183	70 - 130	20	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45923 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001J	09/21/09 3:45 PM	09/22/09	09/22/09 9:08 PM	0909601-002J	09/21/09 3:20 PM	09/22/09	09/22/09 9:23 PM
0909601-003J	09/21/09 3:05 PM	09/22/09	09/22/09 9:36 PM	0909601-004J	09/21/09 10:00 AM	09/22/09	09/22/09 9:52 PM
0909601-005J	09/21/09 9:20 AM	09/22/09	09/22/09 10:06 PM	0909601-006J	09/21/09 8:40 AM	09/22/09	09/22/09 10:20 PM
0909601-007J	09/21/09 12:15 PM	09/22/09	09/22/09 11:01 PM	0909601-008J	09/21/09 11:25 AM	09/22/09	09/22/09 11:15 PM
0909601-009J	09/21/09 10:45 AM	09/22/09	09/22/09 11:29 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45917 WorkOrder: 0909601

EPA Method SW8015B **Extraction SW3510C/3630C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	85.7	84.2	1.77	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	82	81	0.517	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45917 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-001B	09/21/09 3:45 PM	09/21/09	09/23/09 6:04 AM	0909601-001B	09/21/09 3:45 PM	09/21/09	09/23/09 6:04 AM
0909601-004B	09/21/09 10:00 AM	09/23/09	09/23/09 7:14 AM	0909601-004B	09/21/09 10:00 AM	09/23/09	09/23/09 7:14 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45981 WorkOrder: 0909601

EPA Method SW8015B **Extraction SW3510C/3630C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	107	108	0.729	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	95	95	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45981 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909601-005B	09/21/09 9:20 AM	09/21/09	09/23/09 9:34 PM	0909601-005B	09/21/09 9:20 AM	09/21/09	09/23/09 9:34 PM
0909601-007B	09/21/09 12:15 PM	09/21/09	09/24/09 9:29 PM	0909601-007B	09/21/09 12:15 PM	09/21/09	09/24/09 9:29 PM
0909601-008B	09/21/09 11:25 AM	09/21/09	09/26/09 1:47 PM	0909601-008B	09/21/09 11:25 AM	09/21/09	09/26/09 1:47 PM
0909601-009B	09/21/09 10:45 AM	09/21/09	09/23/09 9:37 AM	0909601-009B	09/21/09 10:45 AM	09/21/09	09/23/09 9:37 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
5900 Hollis St, Suite A		Date Received: 09/22/09
Emeryville, CA 94608	Client Contact: Mark Jonas	Date Reported: 10/06/09
	Client P.O.:	Date Completed: 10/06/09

WorkOrder: 0909642

October 06, 2009

Dear Mark:

Enclosed within are:

1) The results of the **8** analyzed samples from your project: **#521000; John Nady,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0909422

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: [illegible] Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY
EDF
GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐
☐ Check if sample is effluent and "J" flag is required

Report To: Mark Jonas
Company: Conestoga-Rovers & Associates
5900 Hollis St., Ste. A
Emeryville, CA
Tele: (510) 420-3307
Project #: 521000
Project Location: 1137 - 1167 65th St., Oakland, CA
Sampler Signature: Muskan Environmental Sampling

Bill To: Conestoga-Rovers & Associates
E-Mail: mjonas@craworld.com cheec@craworld.com
Fax: (510) 420-9170
Project Name: John Nady

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
MW-2A		9-22-09	2:30	X	Poly VOA Amb	X					X	X	X	
MW-3A			8:10											
MW-3B			7:10											
MW-3C			6:20											
MW-4A			1:30											
MW-4B			12:40											
MW-4C			10:25											
MW-5B			9:00	X	X	X					X	X	X	

Analysis Request

TPHg/ss (8015m) BTEX (8021m)	TPHd/mo (8015m with silica gel cleanup)	TPHss /TPHg fuel fingerprint (8015m)	TPHd/mo (8015m) with silica gel cleanup fuel fingerprint	Ethane, Ethene, Methane (RSK175)	(200.8) Iron, Manganese, sodium, Inorganic: Ca, Na, Cl, Fe, K, Mg, SO_4 (300.1) Inorganic Anions: Bromide, Chloride, Nitrate as N, Nitrate as NO_3, Nitrite as N, phosphorus as P, sulfate	(376.2) Sulfide	Total Dissolved Solids (160.1)	Biochemical Oxygen Demand (405.1)	Chemical oxygen Demand (410.4)	Total Organic Carbon (415.3)	Dissolved Organic Carbon (415.3)	Total Alkalinity (310.1)	Ammonia (350.1)	Other: HVOCs 8010	Comments: Filter Samples for Metals analysis: Yes / No
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
				X	X	X	X	X	X	X	X	X	X	X	X		
				X	X	X	X	X	X	X	X	X	X	X	X		
				X	X	X	X	X	X	X	X	X	X	X	X		

+1 +1 +5 +50 +1 +1 +1 +1

Relinquished By:	Date:	Time:	Received By:
	9/22/09	1615	Maria Z-S
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/T: 5.4
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER
PRESERVATION pH<2

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0909642 **ClientCode: CETE**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc: chee@craworld.com
PO:
ProjectNo: #521000; John Nady

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **09/22/2009**
Date Printed: **09/23/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0909642-001	MW-2A	Water	9/22/2009 14:30	☐	E		H	D	I	J	K	M	A	A	C	F
0909642-002	MW-3A	Water	9/22/2009 8:10	☐	E	N	H	D	I	J	K	M	A		C	F
0909642-003	MW-3B	Water	9/22/2009 7:10	☐	E	N	H	D	I	J	K	M	A		C	F
0909642-004	MW-3C	Water	9/22/2009 6:20	☐	E	N	H	D	I	J	K	M	A		C	F
0909642-005	MW-4A	Water	9/22/2009 13:30	☐	E		H	D	I	J	K	M	A		C	F
0909642-006	MW-4B	Water	9/22/2009 12:40	☐	C		J	B	K	F	G	I			A	D
0909642-007	MW-4C	Water	9/22/2009 10:25	☐	C		J	B	K	F	G	I			A	D
0909642-008	MW-5B	Water	9/22/2009 9:00	☐	C		J	B	K	F	G	I			A	D

Test Legend:

1	300_1_W	2	8010BMS_W	3	Alka(spe)_W	4	ALKIMET_W	5	AMMONIA_W
6	BOD_W	7	COD-410_4_W	8	DOC_W	9	G-MBTEX_W	10	PREDF REPORT
11	RSK174_W	12	SULFIDE_W						

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0909642 **ClientCode: CETE**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc: chee@craworld.com
PO:
ProjectNo: #521000; John Nady

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **09/22/2009**
Date Printed: **09/23/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					13	14	15	16	17	18	19	20	21	22	23	24
0909642-001	MW-2A	Water	9/22/2009 14:30	☐	G	L	B	B								
0909642-002	MW-3A	Water	9/22/2009 8:10	☐	G	L	B	B								
0909642-003	MW-3B	Water	9/22/2009 7:10	☐	G	L	B	B								
0909642-004	MW-3C	Water	9/22/2009 6:20	☐	G	L	B	B								
0909642-005	MW-4A	Water	9/22/2009 13:30	☐	G	L	B	B								
0909642-006	MW-4B	Water	9/22/2009 12:40	☐	E	H										
0909642-007	MW-4C	Water	9/22/2009 10:25	☐	E	H										
0909642-008	MW-5B	Water	9/22/2009 9:00	☐	E	H										

Test Legend:

13	TDS-160_1_W	14	TOC_W	15	TPH(DMO)WSG_W	16	TPH(FF)WSG_W	17	
18		19		20		21		22	
23		24							

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**
Date and Time Received: **9/22/2009 8:00:17 PM**

Project Name: **#521000; John Nady**
Checklist completed and reviewed by: Ana Venegas

WorkOrder N°: **0909642** Matrix Water
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 5.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09-09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09-09/24/09

Inorganic Anions by IC*

Extraction Method: E300.1 Analytical Method: E300.1 Work Order: 0909642

Lab ID	0909642-001E	0909642-002E	0909642-003E	0909642-004E	Reporting Limit for DF =1	
Client ID	MW-2A	MW-3A	MW-3B	MW-3C		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	mg/L
Bromide	ND	0.20	1.5	0.84	NA	0.1
Chloride	12	47	230	230	NA	0.1
Nitrate as N	ND	ND	6.4	51	NA	0.1
Nitrate as $NO3^-$	ND	ND	28	230	NA	0.45
Nitrite as N	ND	ND	0.14	0.15	NA	0.1
Phosphate as P	ND	ND	ND	ND	NA	0.1
Sulfate	27	0.32	93	86	NA	0.1
Surrogate Recoveries (%)						
%SS:	95	94	95	96		
Comments	b1	b1	b1	b1		

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^-$] = 4.4286 x [Nitrate as N]

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09-09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09-09/24/09

Inorganic Anions by IC*

Extraction Method: E300.1 Analytical Method: E300.1 Work Order: 0909642

Lab ID	0909642-005E	0909642-006C	0909642-007C	0909642-008C	Reporting Limit for DF =1	
Client ID	MW-4A	MW-4B	MW-4C	MW-5B		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	mg/L
Bromide	0.30	0.27	0.65	0.35	NA	0.1
Chloride	45	31	86	27	NA	0.1
Nitrate as N	ND	3.7	27	0.59	NA	0.1
Nitrate as $NO3^-$	ND	16	120	2.6	NA	0.45
Nitrite as N	1.0	ND	ND	ND	NA	0.1
Phosphate as P	ND	ND	ND	ND	NA	0.1
Sulfate	34	17	60	20	NA	0.1
Surrogate Recoveries (%)						
%SS:	99	97	97	97		
Comments	b1	b1	b1	b1		

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as $NO3^-$] = 4.4286 x [Nitrate as N]

surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis.

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/25/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/25/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0909642

Lab ID	0909642-002N	0909642-003N	0909642-004N		Reporting Limit for DF =1	
Client ID	MW-3A	MW-3B	MW-3C			
Matrix	W	W	W		S	W
DF	5	1	1			
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND<2.5	ND	ND		NA	0.5
Bromoform	ND<2.5	ND	ND		NA	0.5
Bromomethane	ND<2.5	ND	ND		NA	0.5
Carbon Tetrachloride	ND<2.5	ND	ND		NA	0.5
Chlorobenzene	82	ND	ND		NA	0.5
Chloroethane	ND<2.5	ND	ND		NA	0.5
Chloroform	ND<2.5	ND	ND		NA	0.5
Chloromethane	ND<2.5	ND	ND		NA	0.5
Dibromochloromethane	ND<2.5	ND	ND		NA	0.5
1,2-Dibromoethane (EDB)	ND<2.5	ND	ND		NA	0.5
1,2-Dichlorobenzene	ND<2.5	ND	ND		NA	0.5
1,3-Dichlorobenzene	ND<2.5	ND	ND		NA	0.5
1,4-Dichlorobenzene	ND<2.5	ND	ND		NA	0.5
Dichlorodifluoromethane	ND<2.5	ND	ND		NA	0.5
1,1-Dichloroethane	ND<2.5	ND	ND		NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2.5	ND	ND		NA	0.5
1,1-Dichloroethene	ND<2.5	ND	ND		NA	0.5
cis-1,2-Dichloroethene	ND<2.5	ND	ND		NA	0.5
trans-1,2-Dichloroethene	ND<2.5	ND	ND		NA	0.5
1,2-Dichloropropane	ND<2.5	ND	ND		NA	0.5
cis-1,3-Dichloropropene	ND<2.5	ND	ND		NA	0.5
trans-1,3-Dichloropropene	ND<2.5	ND	ND		NA	0.5
Freon 113	ND<50	ND	ND		NA	10
Methylene chloride	ND<2.5	ND	ND		NA	0.5
1,1,1,2-Tetrachloroethane	ND<2.5	ND	ND		NA	0.5
1,1,2,2-Tetrachloroethane	ND<2.5	ND	ND		NA	0.5
Tetrachloroethene	ND<2.5	ND	ND		NA	0.5
1,1,1-Trichloroethane	ND<2.5	ND	ND		NA	0.5
1,1,2-Trichloroethane	ND<2.5	ND	ND		NA	0.5
Trichloroethene	ND<2.5	ND	ND		NA	0.5
Trichlorofluoromethane	ND<2.5	ND	ND		NA	0.5
Vinyl Chloride	ND<2.5	ND	ND		NA	0.5
Surrogate Recoveries (%)						
%SS1:	83	86	87			
%SS2:	103	113	117			
%SS3:	---#	114	109			
Comments	b6,b1	b1	b1			

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment
b6) lighter than water immiscible sheen/product is present

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/23/09

Total & Speciated Alkalinity as Calcium Carbonate*

Extraction method: SM2320B Analytical methods: SM2320B Work Order: 0909642

Lab ID	Client ID	Matrix	Total*	Carbonate*	Bicarbonate*	Hydroxide*	DF	Comments
001H	MW-2A	W	206	ND	206	ND	1	b1
002H	MW-3A	W	408	ND	408	ND	1	b1
003H	MW-3B	W	394	ND	394	ND	1	b1
004H	MW-3C	W	228	ND	228	ND	1	b1
005H	MW-4A	W	225	61.6	ND	164	1	b1
006J	MW-4B	W	291	ND	291	ND	1	b1
007J	MW-4C	W	192	ND	192	ND	1	b1
008J	MW-5B	W	276	ND	276	ND	1	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	1.0	1.0	1.0	1.0	mg CaCO3/L
	S	NA	NA	NA	NA	mg/Kg

*water samples are reported in mg calcium carbonate/L. Hydroxide, Carbonate & Bicarbonate alkalinity measure @ end-point of pH = 8.3 & 4.5 per SM2320B.

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/23/09-09/25/09

ICP Metals*

Extraction method: E200.7 Analytical methods: E200.7 Work Order: 0909642

Lab ID	Client ID	Matrix	Extraction Type	Calcium	Iron	Magnesium	Manganese	Potassium	Sodium	DF	% SS	Comments
001D	MW-2A	W	TOTAL	60,000	16,000	17,000	370	5200	12,000	1	93	b1
002D	MW-3A	W	TOTAL	60,000	46,000	35,000	13,000	9400	49,000	1	109	b1
003D	MW-3B	W	TOTAL	86,000	190,000	77,000	4000	26,000	210,000	1	118	b1
004D	MW-3C	W	TOTAL	290,000	460,000	270,000	21,000	59,000	230,000	1	111	b1
005D	MW-4A	W	TOTAL	57,000	1800	500	34	6300	72,000	1	98	b1
006B	MW-4B	W	TOTAL	50,000	110,000	42,000	2400	11,000	74,000	1	118	b1
007B	MW-4C	W	TOTAL	57,000	14,000	31,000	370	2900	96,000	1	106	b1
008B	MW-5B	W	TOTAL	46,000	51,000	30,000	1300	5800	73,000	1	121	b1
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	500	50	50	20	500	500	µg/L			
	S	TOTAL	NA	NA	NA	NA	NA	NA	NA			

*water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

b1) aqueous sample that contains greater than ~1 vol. % sediment

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09

Ammonia as N*

Analytical Method: E350.1 Work Order: 0909642

Lab ID	Client ID	Matrix	Total Ammonia as N	DF	Comments
0909642-001I	MW-2A	W	ND	1	b1
0909642-002I	MW-3A	W	1.2	1	b1
0909642-003I	MW-3B	W	ND	1	b1
0909642-004I	MW-3C	W	ND	1	b1
0909642-005I	MW-4A	W	2.2	1	b1
0909642-006K	MW-4B	W	ND	1	b1
0909642-007K	MW-4C	W	ND	1	b1
0909642-008K	MW-5B	W	ND	1	b1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 mg/L	
	S	NA	

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09-09/27/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/22/09-09/27/09

Biochemical Oxygen Demand (BOD)*

Analytical Method: SM5210B Work Order: 0909642

Lab ID	Client ID	Matrix	BOD	DF	Comments
0909642-001J	MW-2A	W	ND	1	b1
0909642-002J	MW-3A	W	42	5	b1
0909642-003J	MW-3B	W	5.8	1	b1
0909642-004J	MW-3C	W	6.0	1	b1
0909642-005J	MW-4A	W	ND	1	b1
0909642-006F	MW-4B	W	ND	1	b1
0909642-007F	MW-4C	W	ND	1	b1
0909642-008F	MW-5B	W	ND	1	b1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	4.0 mg/L	
	S	NA	

* water samples are reported in mg/L.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/23/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/23/09

Chemical Oxygen Demand (COD)*

Analytical Method: E410.4 Work Order: 0909642

Lab ID	Client ID	Matrix	COD	DF	Comments
0909642-001K	MW-2A	W	27	1	b1
0909642-002K	MW-3A	W	110	1	b1
0909642-003K	MW-3B	W	30	1	b1
0909642-004K	MW-3C	W	98	2	b1
0909642-005K	MW-4A	W	30	1	b1
0909642-006G	MW-4B	W	ND	1	b1
0909642-007G	MW-4C	W	ND	1	b1
0909642-008G	MW-5B	W	ND	1	b1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 mg/L	
	S	NA	

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/24/09-09/25/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/24/09-09/25/09

Dissolved Organic Carbon (DOC)*

Analytical Method: E415.3 Work Order: 0909642

Lab ID	Client ID	Matrix	Dissolved Organic Carbon	DF	Comments
0909642-001M	MW-2A	W	3.6	1	b1
0909642-002M	MW-3A	W	17	1	b1
0909642-003M	MW-3B	W	2.5	1	b1
0909642-004M	MW-3C	W	1.2	1	b1
0909642-005M	MW-4A	W	7.8	1	b1
0909642-006I	MW-4B	W	1.2	1	b1
0909642-007I	MW-4C	W	0.90	1	b1
0909642-008I	MW-5B	W	0.89	1	b1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.7 mg/L	
	S	NA	

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3.

* TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon; POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/25/09-09/29/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/25/09-09/29/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0909642

Lab ID	0909642-001A	0909642-002A	0909642-003A	0909642-004A	Reporting Limit for DF =1	
Client ID	MW-2A	MW-3A	MW-3B	MW-3C		
Matrix	W	W	W	W		
DF	1	10	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	92	7500	ND	ND	NA	50
TPH(ss)	83	11,000	ND	ND	NA	50
MTBE	---	---	---	---	NA	5.0
Benzene	ND	5.8	ND	ND	NA	0.5
Toluene	0.88	7.5	ND	ND	NA	0.5
Ethylbenzene	ND	ND<5.0	ND	ND	NA	0.5
Xylenes	ND	ND<5.0	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS:	103	88	95	96		
Comments	d2,b1	d5,b1	b1	b1		

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d2) heavier gasoline range compounds are significant (aged gasoline?)
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/25/09-09/29/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/25/09-09/29/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0909642

					Reporting Limit for DF =1	
Lab ID	0909642-005A					
Client ID	MW-4A					
Matrix	W					
DF	1				S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	ND				NA	50
TPH(ss)	ND				NA	50
MTBE	---				NA	5.0
Benzene	ND				NA	0.5
Toluene	0.83				NA	0.5
Ethylbenzene	ND				NA	0.5
Xylenes	1.9				NA	0.5
Surrogate Recoveries (%)						
%SS:	99					
Comments	b1					

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d2) heavier gasoline range compounds are significant (aged gasoline?)
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 10/05/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 10/05/09

Light Gas Hydrocarbons*

Extraction Method: RSK 174/175 Analytical Method: RSK174/175 Work Order: 0909642

Lab ID	0909642-001C	0909642-002C	0909642-003C	0909642-004C	Reporting Limit for DF =1	
Client ID	MW-2A	MW-3A	MW-3B	MW-3C		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
Ethane	2.5	ND	ND	ND	NA	0.5
Ethene	ND	ND	0.57	1.0	NA	0.5
Methane	280	12,000	1.3	1.4	NA	0.4
Surrogate Recoveries (%)						
%SS:	N/A	N/A	N/A	N/A		
Comments	b1	b1	b1	b1		

* water samples are reported in µg/L.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 10/05/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 10/05/09

Light Gas Hydrocarbons*

Extraction Method: RSK 174/175 Analytical Method: RSK174/175 Work Order: 0909642

Lab ID	0909642-005C	0909642-006A	0909642-007A	0909642-008A	Reporting Limit for DF =1	
Client ID	MW-4A	MW-4B	MW-4C	MW-5B		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
Ethane	ND	ND	ND	ND	NA	0.5
Ethene	ND	ND	ND	ND	NA	0.5
Methane	21	9.7	46	2.1	NA	0.4
Surrogate Recoveries (%)						
%SS:	N/A	N/A	N/A	N/A		
Comments	b1	b1	b1	b1		

* water samples are reported in µg/L.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/25/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/25/09

Sulfide*

Analytical Method: E376.2 Work Order: 0909642

Lab ID	Client ID	Matrix	Sulfide	DF	Comments
0909642-001F	MW-2A	W	ND	1	b1
0909642-002F	MW-3A	W	ND	1	b1
0909642-003F	MW-3B	W	ND	1	b1
0909642-004F	MW-3C	W	ND	1	b1
0909642-005F	MW-4A	W	ND	1	b1
0909642-006D	MW-4B	W	ND	1	b1
0909642-007D	MW-4C	W	ND	1	b1
0909642-008D	MW-5B	W	ND	1	b1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.05 mg/L	
	S	NA	

*water samples are reported in mg/L.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/28/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/29/09

Total Dissolved Solids*

Analytical Method: E160.1 Work Order: 0909642

Lab ID	Client ID	Matrix	Total Dissolved Solids	DF	Comments
0909642-001G	MW-2A	W	295	1	b1
0909642-002G	MW-3A	W	432	1	b1
0909642-003G	MW-3B	W	906	1	b1
0909642-004G	MW-3C	W	933	1	b1
0909642-005G	MW-4A	W	374	1	b1
0909642-006E	MW-4B	W	409	1	b1
0909642-007E	MW-4C	W	593	1	b1
0909642-008E	MW-5B	W	360	1	b1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 mg/L	
	S	NA	

* water samples reported in mg/L.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/24/09

Total Organic Carbon (TOC) reported as NPOC*

Analytical Method: E415.3 Work Order: 0909642

Lab ID	Client ID	Matrix	TOC	DF	Comments
0909642-001L	MW-2A	W	3.6	1	b1
0909642-002L	MW-3A	W	17	1	b1
0909642-003L	MW-3B	W	2.5	1	b1
0909642-004L	MW-3C	W	1.2	1	b1
0909642-005L	MW-4A	W	7.7	1	b1
0909642-006H	MW-4B	W	1.3	1	b1
0909642-007H	MW-4C	W	0.93	1	b1
0909642-008H	MW-5B	W	0.91	1	b1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.3 mg/L	
	S	NA	

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC.

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon;
POC = Purgeable Organic Cabon; IC = Inorganic Carbon; TC = Total Carbon.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 09/24/09-09/28/09

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015B Work Order: 0909642

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0909642-001B	MW-2A	W	75	ND	1	103	e11,b1
0909642-002B	MW-3A	W	31,000	1300	1	93	e11,e2,b1
0909642-003B	MW-3B	W	ND	ND	1	95	b1
0909642-004B	MW-3C	W	79	ND	1	98	e11,b1
0909642-005B	MW-4A	W	66	ND	1	98	e6,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
e2) diesel range compounds are significant; no recognizable pattern
e6) one to a few isolated peaks present in the THP(d/mo) chromatogram
e11) stoddard solvent/mineral spirit (?)

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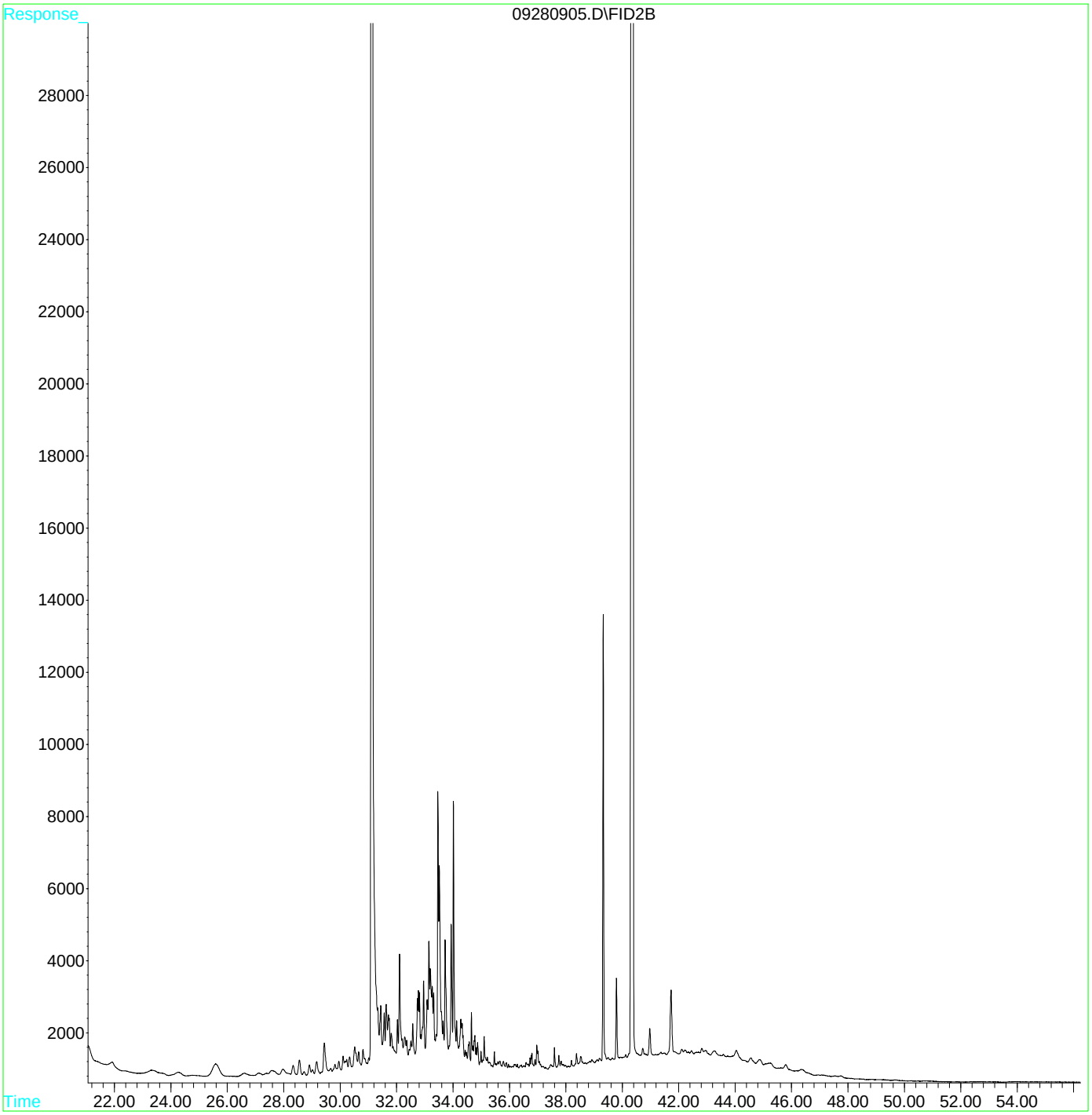
Conestoga-Rovers & Associates	Client Project ID: #521000; John Nady	Date Sampled: 09/22/09
		Date Received: 09/22/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 09/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 09/24/09-09/28/09

Fuel FingerPrint *

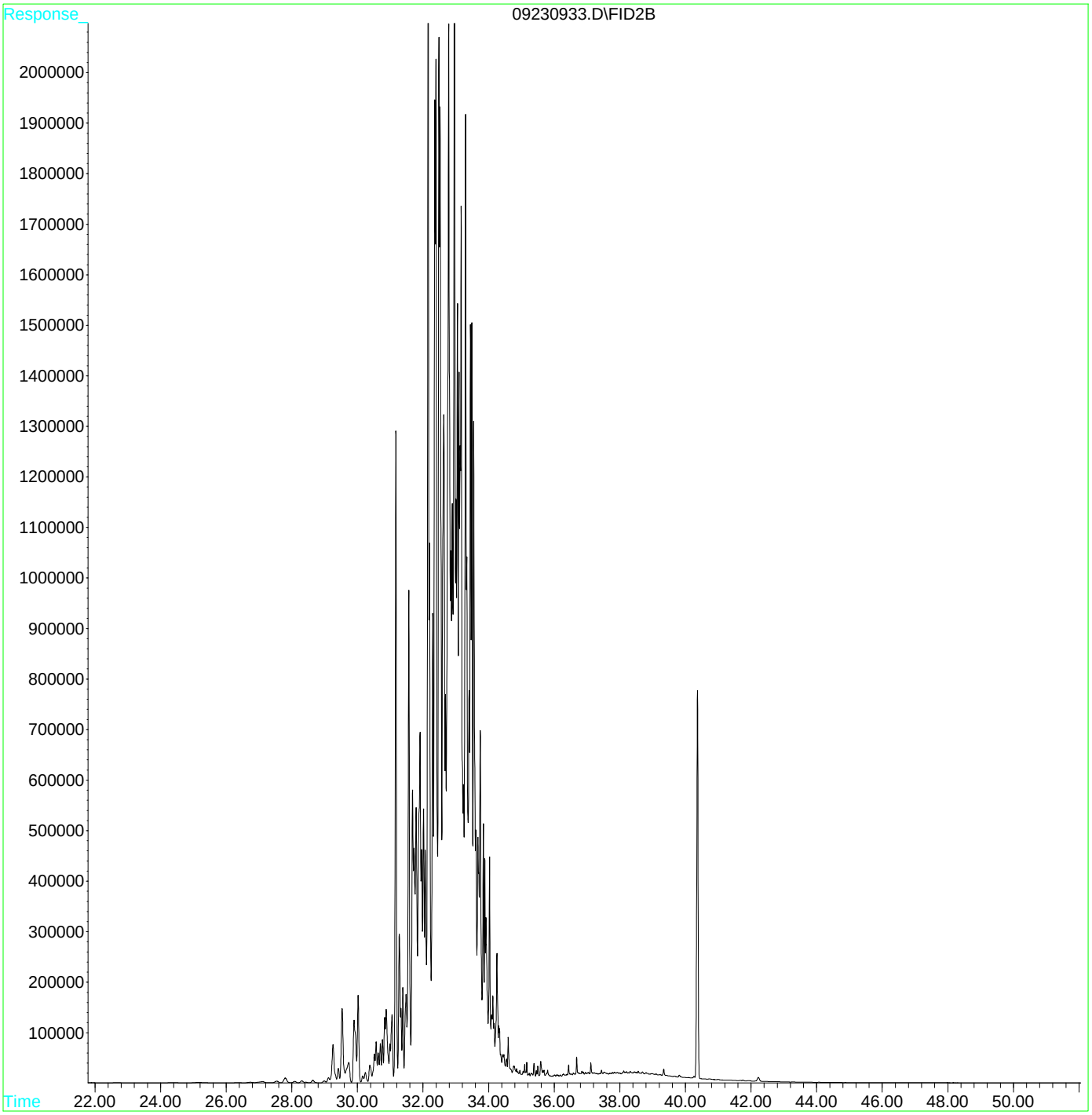
Extraction method SW3510C/3630C Analytical methods SW8015B Work Order: 0909642

Lab ID	Client ID	Matrix	Fuel Fingerprint
0909642-001B	MW-2A	W	This sample has a significant hydrocarbon pattern between C9 and C12 that resembles stoddard solvent. Chromatograms enclosed.
0909642-002B	MW-3A	W	This sample has a sheen and shows a significant hydrocarbon pattern within the stoddard solvent range between C6 and C12. This sample also has a small pattern within the diesel range. Chromatograms enclosed.
0909642-003B	MW-3B	W	No Detectable Pattern.
0909642-004B	MW-3C	W	This sample has a significant hydrocarbon pattern between C9 and C12 that resembles stoddard solvent. Chromatograms enclosed.
0909642-005B	MW-4A	W	This sample has a few unidentified isolated peaks within stoddard solvent / diesel ranges. Chromatograms enclosed.

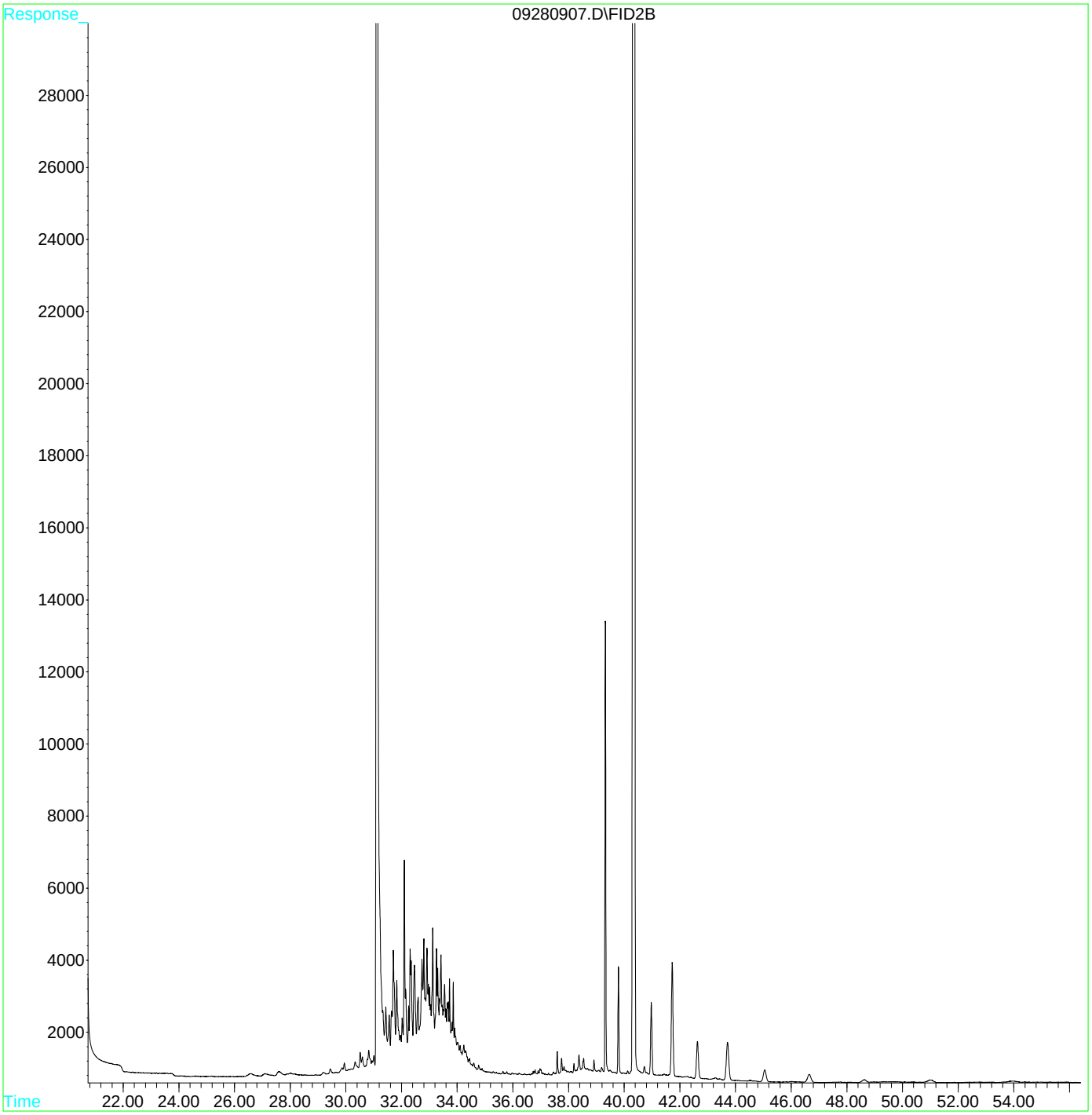
File : D:\HPCHEM\GC6\DATAB\09280905.D
Operator :
Acquired : 28 Sep 2009 12:08 pm using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909642-001B W RE
Misc Info : TPH(DMO)WSG_W
Vial Number: 53



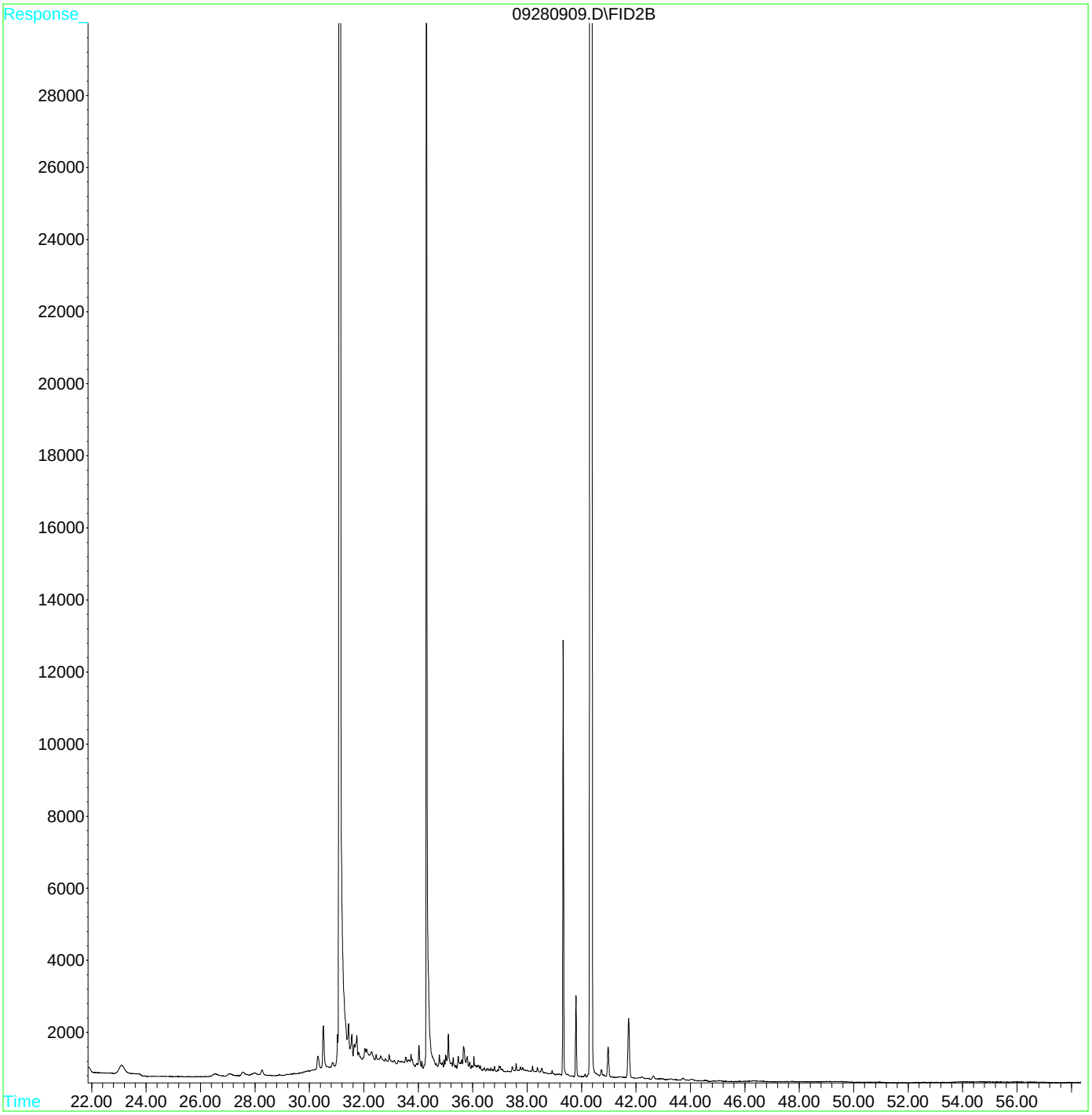
File : D:\HPCHEM\GC6\DATAB\09230933.D
Operator :
Acquired : 24 Sep 2009 10:33 am using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909642-002B S
Misc Info : TPH(DMO)_S
Vial Number: 67



File : D:\HPCHEM\GC6\DATAB\09280907.D
Operator :
Acquired : 28 Sep 2009 1:19 pm using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909642-004B W RE
Misc Info : TPH(DMO)WSG_W
Vial Number: 54



File : D:\HPCHEM\GC6\DATAB\09280909.D
Operator :
Acquired : 28 Sep 2009 2:29 pm using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0909642-005B W RE
Misc Info : TPH(DMO)WSG_W
Vial Number: 55



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QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45977 WorkOrder 0909642

EPA Method E300.1 **Extraction E300.1** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Bromide	N/A	1	N/A	N/A	N/A	91.7	91.7	0	N/A	N/A	85 - 115	15
Chloride	N/A	1	N/A	N/A	N/A	93.8	93.8	0	N/A	N/A	85 - 115	15
Nitrate as N	N/A	1	N/A	N/A	N/A	94.1	94.2	0.0849	N/A	N/A	85 - 115	15
Nitrate as $NO3^{-}$	N/A	4.4	N/A	N/A	N/A	94.1	94.2	0.0849	N/A	N/A	85 - 115	15
Nitrite as N	N/A	1	N/A	N/A	N/A	95.4	94.9	0.556	N/A	N/A	85 - 115	15
Phosphate as P	N/A	1	N/A	N/A	N/A	90.7	95.7	5.32	N/A	N/A	85 - 115	15
Sulfate	N/A	1	N/A	N/A	N/A	113	114	0.411	N/A	N/A	85 - 115	15
%SS:	N/A	0.10	N/A	N/A	N/A	96	95	0.506	N/A	N/A	90 - 115	10

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45977 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001E	09/22/09 2:30 PM	09/23/09	09/23/09 3:28 AM	0909642-001E	09/22/09 2:30 PM	09/24/09	09/24/09 9:59 AM
0909642-002E	09/22/09 8:10 AM	09/23/09	09/23/09 4:09 AM	0909642-002E	09/22/09 8:10 AM	09/24/09	09/24/09 10:39 AM
0909642-003E	09/22/09 7:10 AM	09/23/09	09/23/09 4:49 AM	0909642-003E	09/22/09 7:10 AM	09/24/09	09/24/09 11:20 AM
0909642-003E	09/22/09 7:10 AM	09/24/09	09/24/09 12:01 PM	0909642-004E	09/22/09 6:20 AM	09/23/09	09/23/09 5:30 AM
0909642-004E	09/22/09 6:20 AM	09/24/09	09/24/09 6:48 PM	0909642-005E	09/22/09 1:30 PM	09/23/09	09/23/09 6:11 AM
0909642-005E	09/22/09 1:30 PM	09/24/09	09/24/09 2:03 PM	0909642-006C	09/22/09 12:40 PM	09/23/09	09/23/09 6:52 AM
0909642-006C	09/22/09 12:40 PM	09/24/09	09/24/09 2:44 PM	0909642-007C	09/22/09 10:25 AM	09/23/09	09/23/09 7:32 AM
0909642-007C	09/22/09 10:25 AM	09/24/09	09/24/09 3:25 PM	0909642-008C	09/22/09 9:00 AM	09/23/09	09/23/09 8:13 AM
0909642-008C	09/22/09 9:00 AM	09/24/09	09/24/09 4:05 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

surrogate diluted out of range or surrogate coelutes with another peak.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 46008 WorkOrder 0909642

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0909641-009A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	103	102	0.913	88.3	89	0.827	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	101	101	0	102	105	2.72	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	92.5	90.2	2.60	93.6	98.8	5.34	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	101	98.6	2.40	93.9	95	1.14	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	111	109	1.72	111	113	1.40	70 - 130	30	70 - 130	30
%SS1:	74	25	72	74	2.74	82	81	1.51	70 - 130	30	70 - 130	30
%SS2:	96	25	96	96	0	108	108	0	70 - 130	30	70 - 130	30
%SS3:	81	2.5	84	84	0	90	96	6.10	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 46008 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-002N	09/22/09 8:10 AM	09/25/09	09/25/09 4:58 PM	0909642-003N	09/22/09 7:10 AM	09/25/09	09/25/09 3:12 AM
0909642-004N	09/22/09 6:20 AM	09/25/09	09/25/09 5:41 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Alkalinity **Matrix: W** **WorkOrder: 0909642**

Method Name: SM2320B Units mg CaCO3/L BatchID: 45978

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
0909642-001H	206	1	206	1	0.354	<20
0909642-002H	408	1	407	1	0.196	<20
0909642-003H	394	1	396	1	0.474	<20
0909642-004H	228	1	229	1	0.494	<20
0909642-005H	225	1	225	1	0.0311	<20
0909642-006J	291	1	291	1	0.137	<20
0909642-007J	192	1	192	1	0.38	<20
0909642-008J	276	1	277	1	0.242	<20

BATCH 45978 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001H	09/22/09 2:30 PM	09/23/09	09/23/09 2:50 PM	0909642-002H	09/22/09 8:10 AM	09/23/09	09/23/09 2:58 PM
0909642-003H	09/22/09 7:10 AM	09/23/09	09/23/09 3:08 PM	0909642-004H	09/22/09 6:20 AM	09/23/09	09/23/09 3:17 PM
0909642-005H	09/22/09 1:30 PM	09/23/09	09/23/09 3:24 PM	0909642-006J	)9/22/09 12:40 PM	09/23/09	09/23/09 3:32 PM
0909642-007J	)9/22/09 10:25 AM	09/23/09	09/23/09 3:39 PM	0909642-008J	09/22/09 9:00 AM	09/23/09	09/23/09 3:46 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

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QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 46010 WorkOrder 0909642

EPA Method E200.7 **Extraction E200.7** **Spiked Sample ID: 0909568-001B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Calcium	ND	10000	95.3	95.5	0.189	94.4	95.5	1.17	70 - 130	20	85 - 115	20
Iron	ND	1000	84	88.9	5.68	94.8	98.1	3.37	70 - 130	20	85 - 115	20
Magnesium	ND	1000	84.7	85.4	0.823	93	94.7	1.89	70 - 130	20	85 - 115	20
Manganese	ND	1000	85.4	91.9	7.30	93.4	92.3	1.16	70 - 130	20	85 - 115	20
Potassium	ND	10000	78.4	80.1	2.12	88.8	91.9	3.44	70 - 130	20	85 - 115	20
Sodium	ND	10000	99.8	94.6	5.45	92.4	95.2	2.95	70 - 130	20	85 - 115	20
%SS:	103	750	87	93	6.26	104	96	8.62	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 46010 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001D	09/22/09 2:30 PM	09/22/09	09/23/09 9:00 PM	0909642-001D	09/22/09 2:30 PM	09/22/09	09/25/09 9:37 PM
0909642-002D	09/22/09 8:10 AM	09/22/09	09/23/09 9:06 PM	0909642-002D	09/22/09 8:10 AM	09/22/09	09/25/09 9:43 PM
0909642-003D	09/22/09 7:10 AM	09/22/09	09/23/09 9:12 PM	0909642-003D	09/22/09 7:10 AM	09/22/09	09/25/09 9:49 PM
0909642-004D	09/22/09 6:20 AM	09/22/09	09/23/09 9:18 PM	0909642-004D	09/22/09 6:20 AM	09/22/09	09/25/09 9:55 PM
0909642-005D	09/22/09 1:30 PM	09/22/09	09/23/09 9:36 PM	0909642-005D	09/22/09 1:30 PM	09/22/09	09/25/09 10:00 PM
0909642-006B	09/22/09 12:40 PM	09/22/09	09/23/09 9:42 PM	0909642-006B	09/22/09 12:40 PM	09/22/09	09/25/09 10:06 PM
0909642-007B	09/22/09 10:25 AM	09/22/09	09/23/09 9:48 PM	0909642-007B	09/22/09 10:25 AM	09/22/09	09/25/09 10:12 PM
0909642-008B	09/22/09 9:00 AM	09/22/09	09/23/09 9:53 PM	0909642-008B	09/22/09 9:00 AM	09/22/09	09/25/09 10:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR E350.1

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45979 WorkOrder 0909642

EPA Method E350.1 **Extraction E350.1** **Spiked Sample ID: 0909601-003M**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Total Ammonia as N	ND	4	96.4	96.6	0.175	101	100	0.168	80 - 120	20	90 - 110	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45979 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001I	09/22/09 2:30 PM	09/23/09	09/23/09 1:19 PM	0909642-002I	09/22/09 8:10 AM	09/23/09	09/23/09 1:23 PM
0909642-003I	09/22/09 7:10 AM	09/23/09	09/23/09 2:29 PM	0909642-004I	09/22/09 6:20 AM	09/23/09	09/23/09 1:30 PM
0909642-005I	09/22/09 1:30 PM	09/23/09	09/23/09 1:34 PM	0909642-006K	09/22/09 12:40 PM	09/23/09	09/23/09 1:37 PM
0909642-007K	09/22/09 10:25 AM	09/23/09	09/23/09 1:41 PM	0909642-008K	09/22/09 9:00 AM	09/23/09	09/23/09 1:45 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SM5210B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45939 WorkOrder 0909642

EPA Method SM5210B **Extraction SM5210B** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
BOD	N/A	198	N/A	N/A	N/A	96.2	96.2	0	N/A	N/A	80 - 120	16

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45939 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001J	09/22/09 2:30 PM	09/22/09	09/28/09 11:14 AM	0909642-002J	09/22/09 8:10 AM	09/22/09	09/28/09 11:35 AM
0909642-003J	09/22/09 7:10 AM	09/22/09	09/28/09 11:50 AM	0909642-004J	09/22/09 6:20 AM	09/22/09	09/28/09 12:11 PM
0909642-005J	09/22/09 1:30 PM	09/22/09	09/28/09 12:22 AM	0909642-006F	09/22/09 12:40 PM	09/22/09	09/28/09 12:43 AM
0909642-007F	09/22/09 10:25 AM	09/22/09	09/28/09 1:04 AM	0909642-008F	09/22/09 9:00 AM	09/22/09	09/28/09 1:25 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45980 WorkOrder 0909642

EPA Method E410.4 **Extraction E410.4** **Spiked Sample ID: 0909601-003I**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
COD	ND	400	103	106	2.35	100	99.1	1.23	80 - 120	20	90 - 110	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45980 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001K	09/22/09 2:30 PM	09/23/09	09/23/09 2:49 PM	0909642-002K	09/22/09 8:10 AM	09/23/09	09/23/09 2:55 PM
0909642-003K	09/22/09 7:10 AM	09/23/09	09/23/09 2:33 PM	0909642-004K	09/22/09 6:20 AM	09/23/09	09/23/09 2:39 PM
0909642-005K	09/22/09 1:30 PM	09/23/09	09/23/09 2:45 PM	0909642-006G	09/22/09 12:40 PM	09/23/09	09/23/09 2:51 PM
0909642-007G	09/22/09 10:25 AM	09/23/09	09/23/09 2:57 PM	0909642-008G	09/22/09 9:00 AM	09/23/09	09/23/09 3:03 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0909642

EPA Method E415.3	Extraction E415.3					BatchID: 45982				Spiked Sample ID: 0909601-001K			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	mg/L	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Dissolved Organic Carbon	13	50	107	108	0.135	60	94.3	94.2	0.0884	70 - 130	20	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45982 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001M	09/22/09 2:30 PM	09/25/09	09/25/09 1:11 PM	0909642-002M	09/22/09 8:10 AM	09/24/09	09/24/09 7:25 PM
0909642-003M	09/22/09 7:10 AM	09/25/09	09/25/09 1:26 PM	0909642-004M	09/22/09 6:20 AM	09/25/09	09/25/09 1:43 PM
0909642-005M	09/22/09 1:30 PM	09/24/09	09/24/09 8:07 PM	0909642-006I	09/22/09 12:40 PM	09/25/09	09/25/09 1:57 PM
0909642-007I	09/22/09 10:25 AM	09/25/09	09/25/09 2:11 PM	0909642-008I	09/22/09 9:00 AM	09/25/09	09/25/09 2:24 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 46009 WorkOrder: 0909642

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0909671-001D**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	123	115	6.71	111	110	1.14	70 - 130	20	70 - 130	20
MTBE	ND	10	93.8	97.1	3.44	104	105	0.852	70 - 130	20	70 - 130	20
Benzene	ND	10	113	112	0.505	105	102	2.71	70 - 130	20	70 - 130	20
Toluene	ND	10	112	115	2.63	104	103	1.20	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	107	108	1.11	105	105	0	70 - 130	20	70 - 130	20
Xylenes	0.63	30	117	119	1.52	112	113	0.456	70 - 130	20	70 - 130	20
%SS:	108	10	101	104	3.10	95	90	5.24	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 46009 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001A	09/22/09 2:30 PM	09/25/09	09/25/09 3:56 PM	0909642-002A	09/22/09 8:10 AM	09/25/09	09/25/09 7:45 AM
0909642-003A	09/22/09 7:10 AM	09/25/09	09/25/09 4:57 PM	0909642-004A	09/22/09 6:20 AM	09/25/09	09/25/09 5:58 PM
0909642-005A	09/22/09 1:30 PM	09/29/09	09/29/09 1:57 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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QA/QC Officer

McCampbell Analytical, Inc.
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QC SUMMARY REPORT FOR RSK174/175

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45983 WorkOrder: 0909642

EPA Method RSK174/175 **Extraction RSK 174/175** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Ethane	N/A	2.38	N/A	N/A	N/A	88.8	94.4	6.08	N/A	N/A	80 - 120	20
Ethene	N/A	3.08	N/A	N/A	N/A	94.7	99.4	4.83	N/A	N/A	80 - 120	20
Methane	N/A	1.17	N/A	N/A	N/A	103	113	8.96	N/A	N/A	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45983 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001C	09/22/09 2:30 PM	10/05/09	10/05/09 12:27 PM	0909642-001C	09/22/09 2:30 PM	10/05/09	10/05/09 3:24 PM
0909642-002C	09/22/09 8:10 AM	10/05/09	10/05/09 12:39 PM	0909642-002C	09/22/09 8:10 AM	10/05/09	10/05/09 4:50 PM
0909642-003C	09/22/09 7:10 AM	10/05/09	10/05/09 12:50 PM	0909642-004C	09/22/09 6:20 AM	10/05/09	10/05/09 1:40 PM
0909642-005C	09/22/09 1:30 PM	10/05/09	10/05/09 1:52 PM	0909642-006A	09/22/09 12:40 PM	10/05/09	10/05/09 2:03 PM
0909642-007A	09/22/09 10:25 AM	10/05/09	10/05/09 2:15 PM	0909642-008A	09/22/09 9:00 AM	10/05/09	10/05/09 2:28 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SM4500 S-2 D

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45984 WorkOrder: 0909642

EPA Method E376.2 **Extraction E376.2** **Spiked Sample ID: 0909601-003F**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Sulfide	ND	2.5	106	103	2.12	101	102	1.25	75 - 125	20	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45984 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001F	09/22/09 2:30 PM	09/25/09	09/25/09 2:19 PM	0909642-002F	09/22/09 8:10 AM	09/25/09	09/25/09 2:25 PM
0909642-003F	09/22/09 7:10 AM	09/25/09	09/25/09 2:31 PM	0909642-004F	09/22/09 6:20 AM	09/25/09	09/25/09 2:37 PM
0909642-005F	09/22/09 1:30 PM	09/25/09	09/25/09 2:43 PM	0909642-006D	09/22/09 12:40 PM	09/25/09	09/25/09 2:49 PM
0909642-007D	09/22/09 10:25 AM	09/25/09	09/25/09 2:55 PM	0909642-008D	09/22/09 9:00 AM	09/25/09	09/25/09 3:01 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Total Dissolved Solids (EPA 160.1) **Matrix: W** **WorkOrder: 0909642**

Method Name: E160.1 Units mg/L BatchID: 45940

Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
0909642-001G	295	1	260	2	12.6	<20
0909642-002G	432	1	408	2	5.71	<20
0909642-003G	906	1	846	2	6.85	<20
0909642-004G	933	1	870	2	6.99	<20
0909642-005G	374	1	372	2	0.536	<20
0909642-006E	409	1	384	2	6.3	<20
0909642-007E	593	1	604	2	1.84	<20
0909642-008E	360	1	338	2	6.3	<20

BATCH 45940 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001G	09/22/09 2:30 PM	09/28/09	09/29/09 1:25 PM	0909642-002G	09/22/09 8:10 AM	09/28/09	09/29/09 1:35 PM
0909642-003G	09/22/09 7:10 AM	09/28/09	09/29/09 1:45 PM	0909642-004G	09/22/09 6:20 AM	09/28/09	09/29/09 1:55 PM
0909642-005G	09/22/09 1:30 PM	09/28/09	09/29/09 2:05 PM	0909642-006E	)9/22/09 12:40 PM	09/28/09	09/29/09 2:15 PM
0909642-007E	)9/22/09 10:25 AM	09/28/09	09/29/09 2:25 PM	0909642-008E	09/22/09 9:00 AM	09/28/09	09/29/09 2:35 PM

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder 0909642

EPA Method E415.3	Extraction E415.3					BatchID: 45923				Spiked Sample ID: 0909525-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	mg/L	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TOC	22	50	113	112	0.612	60	90.9	91.1	0.183	70 - 130	20	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45923 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001L	09/22/09 2:30 PM	09/24/09	09/24/09 4:55 PM	0909642-002L	09/22/09 8:10 AM	09/24/09	09/24/09 5:08 PM
0909642-003L	09/22/09 7:10 AM	09/24/09	09/24/09 5:21 PM	0909642-004L	09/22/09 6:20 AM	09/24/09	09/24/09 5:37 PM
0909642-005L	09/22/09 1:30 PM	09/24/09	09/24/09 6:16 PM	0909642-006H	09/22/09 12:40 PM	09/24/09	09/24/09 6:28 PM
0909642-007H	09/22/09 10:25 AM	09/24/09	09/24/09 6:44 PM	0909642-008H	09/22/09 9:00 AM	09/24/09	09/24/09 6:58 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45981 WorkOrder: 0909642

EPA Method SW8015B **Extraction SW3510C/3630C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	107	108	0.729	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	95	95	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45981 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909642-001B	09/22/09 2:30 PM	09/22/09	09/28/09 12:08 PM	0909642-001B	09/22/09 2:30 PM	09/22/09	09/28/09 12:08 PM
0909642-002B	09/22/09 8:10 AM	09/22/09	09/24/09 10:33 AM	0909642-002B	09/22/09 8:10 AM	09/22/09	09/24/09 10:33 AM
0909642-003B	09/22/09 7:10 AM	09/22/09	09/24/09 2:14 PM	0909642-003B	09/22/09 7:10 AM	09/22/09	09/24/09 2:14 PM
0909642-004B	09/22/09 6:20 AM	09/22/09	09/28/09 1:19 PM	0909642-004B	09/22/09 6:20 AM	09/22/09	09/28/09 1:19 PM
0909642-005B	09/22/09 1:30 PM	09/22/09	09/28/09 2:29 PM	0909642-005B	09/22/09 1:30 PM	09/22/09	09/28/09 2:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

Results

University of California-Davis Stable Isotope Facility
One Shields Ave. Davis, CA 95616
530-754-7517
Elvira Delgado
10/16/2009

Conestoga-Rovers & Associates
5900 Hollis ST, Suite A
510-420-0700
Mark Jonas
mjonas@craworld.com

H2O isotope analysis by laser spectroscopy (Los Gatos Reseach Instruments)

LabID	Sample_name	VSMOW Delta 18O	Well Id	Type of Material	Analysis
W-3307	MW-1A	-5.55	1	Water	O18/O16 Isotopes
W-3308	MW-1B	-5.80	2	Water	O18/O16 Isotopes
W-3309	MW-1C	-5.94	3	Water	O18/O16 Isotopes
W-3310	MW-4A	-7.80	4	Water	O18/O16 Isotopes
W-3311	MW-4B	-8.47	5	Water	O18/O16 Isotopes
W-3312	MW-4C	-6.01	6	Water	O18/O16 Isotopes
W-3313	MW-6A	-8.28	7	Water	O18/O16 Isotopes
W-3314	MW-6B	-6.64	8	Water	O18/O16 Isotopes
W-3315	MW-6C	-6.04	9	Water	O18/O16 Isotopes

APPENDIX C

FIELD DATA SHEETS

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

Client: Conestoga-Rovers and Associates

Site Address: 1137-1167 65th Street, Oakland, CA

Date: 9/21/2009 **Signature:**

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1A	7:15		4.77		14.40	
MW-1B	7:10		9.08		19.70	
MW-1C	7:05		9.90		34.55	
MW-2A	7:40		4.73		11.15	
MW-3A	7:35		4.32		13.85	
MW-3B	7:30		8.93		23.70	
MW-3C	7:25		11.48		35.60	
MW-4A	6:30		2.57		12.65	
MW-4B	6:35		5.20		20.75	
MW-4C	6:40		8.42		32.00	
MW-5B	6:25		9.01		23.05	

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

Client: Conestoga-Rovers and Associates 2 of 2

Site Address: 1137-1167 65th Street. Oakland. CA

Date: 9/21/2009 **Signature:**

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-6A	6:50		5.68		14.10	
MW-6B	6:55		8.72		22.00	
MW-6C	7:00		8.70		33.80	
MW-7A	10:30		4.81		10.00	
MW-7B	10:25		9.32		22.45	
MW-7C	10:20		10.91		29.72	

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-1A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	14.40	Fe=	mg/L
Depth to Water:	~~14.40~~ 4.77	ORP=	mV
Water Column Height:	9.63	DO=	mg/L
Gallons/ft:	0.16		
1 Casing Volume (gal):	1.54		
3 Casing Volumes (gal):	4.62		

COMMENTS:
very turbid, silty
3:40pm DTW = 9.11
well did not recharge 80% in 1 hour
sample taken 3:45pm after two hours

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
1:30	1.5	19.5	6.51	374
1:35	~~5.0~~ 2 gallons dewatered			
	~~4.5~~			

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-1A	9/21/09	3:45	see coc	see coc, ICE	see coc	see coc
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-1B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	19.70	Fe=	mg/L
Depth to Water:	9.08	ORP=	mV
Water Column Height:	10.62	DO=	mg/L
Gallons/ft:	0.16		
1 Casing Volume (gal):	1.69		
3 Casing Volumes (gal):	5.07		

COMMENTS:
very turbid, silty
3:17 pm DTW = 10.71
well did not recharge in 1 hour
sample taken after 2 hours

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
1:10	1.5	19.9	6.80	1034
1:15	~~5.0~~ 2 gallons purged Dewatered			
	~~5.0~~			

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-1B	9/21/09	3:20	see coc	see coc, ICE	see coc	see coc
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-1C
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	34.55	Fe=	mg/L
Depth to Water:	9.90	ORP=	mV
Water Column Height:	24.65	DO=	mg/L
Gallons/ft:	0.16		
1 Casing Volume (gal):	3.94		
3 Casing Volumes (gal):	11.82		

COMMENTS:
very turbid, silty
3:00 pm DTW = 15.31 after 1 hour well did not recharge 80% after 2 hours sample taken

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
12:55	4.0	19.9	6.98	1240
~~1:00~~	~~8.0~~ Dewatered after purging 8.0 gallons.			
	~~12.0~~			

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-1C	9/21/09	3:05	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-2A
Well Diameter:	4"
Purging Device:	3" Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	11.15	**Fe=**	**mg/L**
Depth to Water:	4.73	**ORP=**	**mV**
Water Column Height:	6.42	**DO=**	**mg/L**
Gallons/ft:	0.65		
1 Casing Volume (gal):	4.17	**COMMENTS:**	
3 Casing Volumes (gal):	12.51	very turbid, silty	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
2:15	4.0	21.7	7.30	393
2:20	8.0	21.6	7.38	394
2:25	12.5	21.6	7.39	398

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-2A	9/22/09	2:30	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-3A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	13.85	Fe=	mg/L
Depth to Water:	4.32	ORP=	mV
Water Column Height:	9.53	DO=	mg/L
Gallons/ft:	0.16		
1 Casing Volume (gal):	1.52	COMMENTS:	very turbid, silty
3 Casing Volumes (gal):	4.56		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
7:55	1.5	17.7	7.54	938
8:00	3.0	17.9	7.50	912
8:05	4.5	17.7	7.53	936

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-3A	9/22/09	8:10	see coc	see coc, ICE	see coc	see coc
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-3B
Well Diameter:	1"
Purging Device:	check valve tubing
Sampling Method:	Disposable Bailer

Total Well Depth:	23.70	**Fe=**	**mg/L**
Depth to Water:	8.93	**ORP=**	**mV**
Water Column Height:	14.77	**DO=**	**mg/L**
Gallons/ft:	0.04		
1 Casing Volume (gal):	0.59	**COMMENTS:**	very turbid, silty
3 Casing Volumes (gal):	1.77		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
7:00	0.5	17.4	7.71	1749
7:03	1.0	17.1	7.65	1720
7:05	1.5	17.8	7.66	1755

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-3B	9/22/09	7:10	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-3C
Well Diameter:	1"
Purging Device:	check valve tubing
Sampling Method:	Disposable Bailer

Total Well Depth:	35.60
Depth to Water:	11.48
Water Column Height:	24.12
Gallons/ft:	0.04
1 Casing Volume (gal):	0.96
3 Casing Volumes (gal):	2.88

Fe=	**mg/L**
ORP=	**mV**
DO=	**mg/L**

COMMENTS: very turbid, very silty

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
6:05	1.0	18.5	7.68	1633
6:10	2.0	18.8	7.70	1610
6:15	3.0	18.7	7.74	1641

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-3C	9/22/09	6:20	see coc	see coc, ICE	see coc	see coc
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-4A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	12.65	**Fe=**	**mg/L**
Depth to Water:	2.57	**ORP=**	**mV**
Water Column Height:	10.08	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	1.61		
3 Casing Volumes (gal):	4.83		

COMMENTS:
~~Purge~~ H_2O Rx with HCl in containers

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
1:15	1.5	20.9	9.71	482
1:20	3.0	21.5	9.77	489
1:25	5.0	21.3	9.76	486

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW4A	9/22/09	1:30	see coc	see coc. ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-4B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer
Total Well Depth:	20.75
Depth to Water:	5.20
Water Column Height:	15.55
Gallons/ft:	0.16
1 Casing Volume (gal):	2.48
3 Casing Volumes (gal):	7.44

Fe= mg/L
ORP= mV
DO= mg/L

COMMENTS: very turbid, very silty, slow recharge

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
12:10	2.5	18.1	7.26	677
12:20	5.0	18.3	7.30	678
12:30	7.5	18.1	7.22	661

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-4B	9/22/09	12:40	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-4C
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	32.00	**Fe=**	**mg/L**
Depth to Water:	8.42	**ORP=**	**mV**
Water Column Height:	23.58	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	3.77	**COMMENTS:**	
3 Casing Volumes (gal):	11.31	turbid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
9:50	4.0	17.7	7.09	946
10:00	8.0	17.6	7.12	956
10:20	11.0	17.4	7.18	944

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-4C	9/22/09	10:25	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-5B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	23.05	**Fe=**	**mg/L**
Depth to Water:	9.01	**ORP=**	**mV**
Water Column Height:	14.04	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	2.24	**COMMENTS:**	very turbid, silty
3 Casing Volumes (gal):	6.72		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
8:45	2.5	17.5	6.87	579
8:50	5.0	17.4	6.80	591
8:55	7.0	17.3	6.81	598

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-5B	9/22/09	9:00	see coc	see coc, ICE	see coc	see coc
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-6A
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	14.10	**Fe=**	**mg/L**
Depth to Water:	5.68	**ORP=**	**mV**
Water Column Height:	8.42	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	1.34	**COMMENTS:**	very turbid, silty
3 Casing Volumes (gal):	4.02		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
9:45	1.5	21.0	6.92	743
9:50	3.0	21.4	6.86	731
9:55	4.0	21.3	6.89	731

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-6A	9/21/09	10:00	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-6B
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	22.00	**Fe=**	**mg/L**
Depth to Water:	8.72	**ORP=**	**mV**
Water Column Height:	13.28	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	2.12	**COMMENTS:**	
3 Casing Volumes (gal):	6.36	turbid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
9:05	2.0	18.4	6.91	1027
9:10	4.0	18.7	6.81	1035
9:15	6.0	18.8	6.87	1041

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW6B	9/21/09	9:20	see coc	see coc. ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-6C
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	33.80	**Fe=**	**mg/L**
Depth to Water:	8.70	**ORP=**	**mV**
Water Column Height:	25.10	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	4.01	**COMMENTS:**	
3 Casing Volumes (gal):	12.03	turbid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
8:10	4.0	19.7	6.71	1029
8:20	8.0	19.0	6.65	1020
8:35	12.0	19.1	6.67	1025

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-6C	9/21/09	8:40	see coc	see coc, ICE	see coc	see coc
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-7A
Well Diameter:	1"
Purging Device:	check valve tubing
Sampling Method:	Disposable Bailer

Total Well Depth:	10.00	**Fe=**	**mg/L**
Depth to Water:	4.81	**ORP=**	**mV**
Water Column Height:	5.19	**DO=**	**mg/L**
Gallons/ft:	0.04		
1 Casing Volume (gal):	0.20	**COMMENTS:**	
3 Casing Volumes (gal):	0.60		

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
12:10	.2	18.4	6.71	1013
12:11	.4	18.6	6.68	970
12:13	.6	18.6	6.69	981

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-7A	9/21/09	12:15	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-7B
Well Diameter:	1"
Purging Device:	check valve tubing
Sampling Method:	Disposable Bailer

Total Well Depth:	22.45
Depth to Water:	9.32
Water Column Height:	13.13
Gallons/ft:	0.04
1 Casing Volume (gal):	0.52
3 Casing Volumes (gal):	1.56

Fe=	**mg/L**
ORP=	**mV**
DO=	**mg/L**

COMMENTS: very turbid, very silty

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
11:15	0.5	18.0	7.41	1233
11:17	1.0	18.3	7.49	1250
11:20	1.5	18.1	7.46	1271

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-7B	9/21/09	11:25	see coc	see coc, ICE	see coc	see coc

Signature:

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	9/21/2009
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-7C
Well Diameter:	4"
Purging Device:	check valve tubing
Sampling Method:	Disposable Bailer

Total Well Depth:	29.72
Depth to Water:	10.91
Water Column Height:	18.81
Gallons/ft:	0.04
1 Casing Volume (gal):	0.75
3 Casing Volumes (gal):	2.25

Fe=	**mg/L**
ORP=	**mV**
DO=	**mg/L**

COMMENTS: very turbid, very silty

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
10:40	1.0	18.5	7.34	1268
10:41	1.5	18.1	7.39	1274
10:42	2.0	18.4	7.41	1290

Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-7C	9/21/09	10:45	see coc	see coc, ICE	see coc	see coc
				Signature:		

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: [illegible] Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY ☒
GeoTracker EDF ☒ PDF ☐ Excel ☐ Write On (DW) ☐
Check if sample is effluent and "J" flag is required

Report To: Mark Jonas
Company: Conestoga-Rovers & Associates
5900 Hollis St., Ste. A
Emeryville, CA
Tele: (510) 420-3307
Project #: 521000
Project Location: 1137 - 1167 65th St., Oakland, CA
Sampler Signature: Muslum Environmental Sampling

Bill To: Conestoga-Rovers & Associates
E-Mail: mjonas@craworld.com cheep@craworld.com
Fax: (510) 420-9170
Project Name: John Nady

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	Analysis Request: TPHg/SS (8015m) BTEX (8021m)	TPHd/mO (8015m with silica gel cleanup)	TPHss/TPHg fuel fingerprint (8015m)	TPHd/mO (8015m) with silica gel cleanup if fuel fingerprint positive	Ethane, Ethene, Methane (RSK175)	(200.8) Iron, Manganese, sodium,	300.1) Inorganic Ca, Na, Cl, Fe, K, Mg, SO_4, Nitrate as N, Alkalinity: Bromide, Chloride, Nitrite as N, Nitrate as NO_3, Phosphate as P, Sulfate	(376.2) Sulfide	Total Dissolved Solids (160.1)	Biochemical Oxygen Demand (405.1)	Chemical Oxygen Demand (410.4)	Total Organic Carbon (415.3)	Dissolved Organic Carbon (415.3)	Total Alkalinity (310.1)	Ammonia (350.1)	Other: HVOCs 8010	Comments
MW-1A		9/21/06	3:45	1	Poly VOAs	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-1B			3:20																X	X	X	X	X	X	X	X	X	X	X	
MW-1C			3:05																X	X	X	X	X	X	X	X	X	X		
MW-6A			10:00												X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-6B			9:20												X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-6C			8:40																X	X	X	X	X	X	X	X	X	X		
MW-7A			12:15												X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-7B			11:25												X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-7C		↓	10:45	↓	↓	↓					↓	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

Relinquished By:	Date:	Time:	Received By:
	9/21/06	1802	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° _____
GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____

COMMENTS:

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Yes — GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Mark Jonas
Bill To: Conestoga-Rovers & Associates
Company: Conestoga-Rovers & Associates
5900 Hollis St., Ste. A
Emeryville, CA
E-Mail: mjonas@craworld.com, cnee@craworld.com
Tele: (510) 420-3307
Fax: (510) 420-9170
Project #: 521000
Project Name: John Nady
Project Location: 1137-1167 65th St., Oakland, CA
Sampler Signature: Muskan Environmental Sampling

Analysis Request columns: (A) TPHg/ss (8015m) BTEX (8021m); (B) TPHd/mo (8015m with silica gel clean up); (C) TPHss, TPHg fuel fingerprint (8015m); (D) TPHd/mo (8015m) fuel fingerprint (with silica gel clean up); (E) Ethane, Ethene, Methane (RSK175); (F) (200.8) Iron, Manganese, sodium, Inorganic: Ca, Mg, Cl, Fe, K, Mn, SO_4^{-2}; (G) (300.1) Inorganic Anions: Bromide, Chloride, Nitrate as N, Nitrate as NO_3, Nitrite as N, Phosphate as P, Sulfate; (H) (376.2) Sulfide; (I) Total Dissolved Solids (160.1); (J) Biochemical Oxygen Demand (405.1); (K) Chemical Oxygen Demand (410.4); (L) Total Organic Carbon (415.3); (M) Dissolved Organic Carbon (415.3); (N) Total Alkalinity (310.1); (O) Ammonia (350.1); (P) HVOCs 8010

SAMPLE ID	LOCATION/Field Point Name	Date	Time	# Containers	Type Containers	Matrix	Method Preserved	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Other	Comments
MW-2A		9-22-09	2:30	X	Poly VOA Amb	Water	ICE, HCl, HNO_3, Other	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MW-3A		↓	8:10	↓	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-3B		↓	7:10	↓	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-3C		↓	6:20	↓	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
MW-4A		↓	1:30	↓	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MW-4B		↓	12:40	↓	↓	↓	↓					X	X	X	X	X	X	X	X	X	X	X			
MW-4C		↓	10:25	↓	↓	↓	↓					X	X	X	X	X	X	X	X	X	X	X			
MW-5B		↓	9:00	↓	↓	↓	↓					X	X	X	X	X	X	X	X	X	X	X			

Comments: Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
[signature]	9/22/09	1615	Maria [signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

COMMENTS:

PRESERVATION VOAS O&G METALS OTHER pH<2

Muskan Environmental Sampling

1674 Bay Court
Yuba City, CA 95993

Telephone: (408) 666-4494 e-mail: sanjivgill@comcast.net

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

EDF Required: (Yes) No Write On (DW) No

Report To: Mark Jonas Bill To: Conestoga-Rovers & Associates

Company: Conestoga-Rovers & Associates

Bill TO → 5900 Hollis St., Ste. 1A
Emeryville, CA

E-Mail: mjonas@craworld.com
chee@craworld.com

Tele: 510-420-3307 Fax: 510-420-9170

Project #: 521000 Project Name: John Nady

Project Location: 1137-1167 65th Street, Oakland, CA

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	Analysis Request: $\delta^{18}O/\delta^{16}$ Isotopes	Other	Comments
MW-1A		9/21/09	3:45pm	2	VOA	X					X				X		
MW-1B		9/21/09	3:20pm	2											X		
MW-1C		9/21/09	3:05pm	2											X		
MW-4A		9/22/09	1:30pm	2											X		
MW-4B		9/22/09	12:40pm	2											X		
MW-4C		9/22/09	10:25AM	2											X		
MW-6A		9/21/09	10:00AM	2											X		
MW-6B		9/21/09	9:20AM	2											X		
MW-6C		9/21/09	8:40 AM	2	✱	✱					✱				X		

Relinquished By:	Date:	Time:	Received By:
	9/22/09	3:42	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____ COMMENTS:
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION pH<2