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Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue Southeast
Bellevue, Washington 98008-5452

Subject:
Second Quarter 2014 Groundwater Monitoring Report
Kinder Morgan Harbor Island Terminal
KMLT File No. 29.79.02 (81171)
2720 13th Avenue Southwest
Seattle, Washington 98134

Dear Ms. O'Brien:

On behalf of Kinder Morgan Liquids Terminals, LLC (KMLT), ARCADIS U.S., Inc. (ARCADIS), is pleased to submit this *Second Quarter 2014 Groundwater Monitoring Report* for the above referenced facility (the site). This report also includes analytical data and conclusions for the sulfate land application two- and three-month performance monitoring events.

The next groundwater monitoring event at the site is scheduled for third quarter 2014. Should you have any questions regarding this report, please contact Matt Annis of ARCADIS at (206) 726-4716 or Robert Truedinger of KMLT at (510) 412-8813.

Sincerely,

ARCADIS U.S., Inc.

Matt Annis
Senior Environmental Scientist

Rebecca Andresen, L.G.
Associate Vice President

Enc.:
Second Quarter 2014 Groundwater Monitoring Report

CC:
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ENVIRONMENT

Date
June 13, 2014

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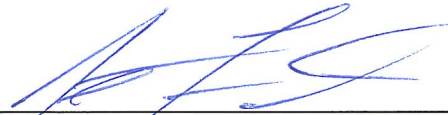
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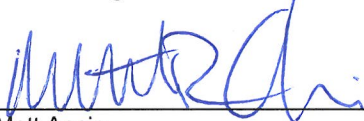
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WA000804.2014


**Second Quarter 2014 Groundwater
Monitoring Report**

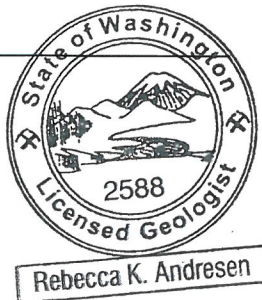
**Kinder Morgan Harbor Island Terminal
KMLT File No. 29.79.02 (81171)
2720 13th Avenue Southwest
Seattle, Washington 98134**




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**Second Quarter 2014
Groundwater Monitoring Report**
Kinder Morgan Harbor Island
Terminal
KMLT File No. 29.79.02 (81171)
2720 13th Avenue Southwest
Seattle, Washington 98134

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1. Introduction	1
1.1 Site Description	1
1.2 Regulatory Background	2
2. Scope of Work	3
2.1 Compliance Monitoring Scope of Work	3
2.2 Performance Monitoring Scope of Work	3
2.3 Compliance Monitoring Sampling and Analysis	4
2.4 Performance Monitoring Sampling and Analysis	5
2.4.1 Second Quarter Performance Monitoring	5
3. Summary of Results	6
3.1 Water Level Measurements	6
3.1.1 Passive SPH Recovery	7
3.2 Compliance Monitoring Groundwater Analytical Results	7
3.3 Performance Monitoring Results	8
3.3.1 Second Quarter Analytical Results	8
3.4 Data Validation	9
4. Conclusions	9
4.1 Compliance Monitoring	9
4.2 Sulfate Land Application	10
4.2.1 Second Quarter 2014 Analytical Results	10
5. References	11

Tables

Table 1	Groundwater Elevation Data
Table 2	Groundwater Analytical Results
Table 3	Groundwater Natural Attenuation Parameters
Table 4	Performance Monitoring Parameters

Figures

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contours
Figure 4	Groundwater Analytical Results
Figure 5	Performance Monitoring Groundwater Analytical Results

Attachments

Attachment A	<i>Proposed Reduced Monitoring - Site-Wide Groundwater Compliance Monitoring Plan</i> <i>Technical Revision Request</i> <i>Ecology Approval Letter</i>
Attachment B	Groundwater Monitoring Field Data Sheets
Attachment C	Laboratory Reports and Chain-of-Custody Documentation

1. Introduction

ARCADIS U.S., Inc. has prepared this report to present the findings of the Second Quarter 2014 groundwater monitoring and sampling event and the Second Quarter 2014 remedial performance monitoring at the Kinder Morgan Liquids Terminals (KMLT), LLC Harbor Island Terminal located in Seattle, Washington (site). A site location map is included as Figure 1.

Compliance groundwater monitoring and sampling was performed in accordance with the KMLT *Proposed Reduced Monitoring-Site-Wide Groundwater Compliance Monitoring Plan* (Reduced Monitoring Plan [Delta 2007]) on April 21 through April 24, 2014. Additionally, low-flow groundwater sampling techniques were used in accordance with the Technical Revision Request (Delta 2008), presented as Attachment A.

In second quarter 2013, ARCADIS completed the installation of performance monitoring wells, baseline performance monitoring, and the sulfate land application in accordance with the *B and D Yards Groundwater Remediation – Engineering Design Report* (ARCADIS 2012a). Details of this remedial action and baseline performance monitoring can be found in the *Remedial Action Report – B and D Yards* (ARCADIS 2013a). The results of the previous performance monitoring events have been summarized in prior reports and the analytical data are presented in the attached tables.

1.1 Site Description

The site is currently a 14-acre bulk petroleum storage facility located east of 13th Avenue Southwest on Harbor Island in Seattle, King County, Washington and has operated as a bulk petroleum storage terminal since 1944. The site vicinity is primarily occupied by heavy industry. The site is situated at an elevation of approximately 9 to 16 feet above mean sea level (amsl) and the topography of the site vicinity is flat. A site location map and site plan are included as Figures 1 and 2, respectively.

The site consists of five yards (A, B, C, D, and E). Site features include aboveground storage tanks (ASTs) containing refined petroleum products in the B and C yards. The A Yard, located at the southern end of the site, consists of the terminal office, a truck loading rack, and other support structures. The B Yard, located north of A Yard and south of D Yard, contains 15 ASTs and associated piping and is surrounded by a 15-

foot high concrete wall. The D Yard, located north of B Yard, is comprised of a driveway and a maintenance building and is the primary corridor for on-site utilities. The C Yard, located north of D Yard and south of E Yard, contains six ASTs and associated piping and is surrounded by a 15-foot high concrete wall. The E Yard, located at the north end of the property, is leased to other parties and consists of an office building and vehicle storage facilities.

1.2 Regulatory Background

Groundwater cleanup levels for the site were determined by the Washington Department of Ecology (Ecology) to be surface water standards that are protective of aquatic organisms in Elliott Bay and also determined by no current or future use of the groundwater for drinking water purposes. However, surface water standards are not established for total petroleum hydrocarbons (TPH); therefore, the groundwater cleanup levels of gasoline-range (TPH-GRO), diesel-range (TPH-DRO), and heavy oil-range (TPH-HO) were selected as the cleanup goals. The approved Reduced Monitoring Plan (Delta 2007) outlines site-specific contaminants of concern (COCs) and applicable cleanup levels. These site-specific COCs and their cleanup levels are as follows:

Constituent	Cleanup Level
Benzene	0.071 mg/L
Ethylbenzene	29.0 mg/L
Lead	0.0058 mg/L
Toluene	200 mg/L
TPH-GRO	1.0 mg/L
TPH-DRO	10 mg/L
TPH-HO	10 mg/L
Product	No sheen

mg/L = milligrams per liter

2. Scope of Work

This section summarizes the scope of work for the compliance monitoring program and the sulfate land application performance monitoring program.

2.1 Compliance Monitoring Scope of Work

Second Quarter 2014 compliance groundwater monitoring and sampling activities were performed in accordance with the Reduced Monitoring Plan (Delta 2007), which proposed revisions to the Compliance Monitoring Plan (KHM 1999), including a reduction in the number of wells to be gauged, a reduction in the frequency of sampling in select wells, and a reduction in analytes in select wells. Ecology approved the Reduced Monitoring Plan on August 7, 2007. As part of the Reduced Monitoring Plan, natural attenuation parameters are collected annually during the second quarter of each year (Delta 2007). The above referenced documents are presented as part of Attachment A.

The scope of work for the Second Quarter 2014 sampling event included:

- Measuring depth to water in 43 monitoring wells
- Purging 30 monitoring wells using low-flow sampling methods
- Collecting groundwater samples from 30 monitoring wells
- Submittal of groundwater samples to Alpha Analytical, Inc. of Sparks, Nevada (Alpha) for laboratory analyses
- Preparing and submitting a quarterly groundwater monitoring report to Ecology.

2.2 Performance Monitoring Scope of Work

Performance groundwater monitoring and sampling activities were performed in accordance with the approved *B and D Yards Groundwater Remediation - Engineering Design Report* (EDR [ARCADIS 2012a]) and ARCADIS' Response to Comments (RTC [ARCADIS 2012b]). The scope of work for performance monitoring included groundwater sampling approximately six months after remedial construction concluded in June 2013. The Second Quarter performance monitoring event was conducted in

conjunction with compliance monitoring on April 21 through April 24, 2014 and included:

- Measuring depth to water and separate phase hydrocarbons (SPH) in 12 monitoring wells
- Collecting field parameters, including dissolved oxygen (DO), oxygen reduction potential (ORP), pH, temperature, and specific conductivity from 12 monitoring wells
- Purging 12 monitoring wells, using low-flow sampling methods
- Collecting groundwater samples from 12 monitoring wells
- Submittal of groundwater samples to Alpha for laboratory analyses
- Summarizing performance monitoring results in the quarterly groundwater monitoring report.

Four monitoring wells (A-27, MW-19, MW-7 and MW-9) included in the Second Quarter performance monitoring scope are also included in the Second Quarter compliance monitoring scope; these wells were sampled once and results are presented with both monitoring programs.

2.3 Compliance Monitoring Sampling and Analysis

Groundwater samples were collected in accordance with the Reduced Monitoring Plan (Delta 2007) from five wells on April 21, 2014, 10 wells on April 22, 2014, 13 wells on April 23, 2014, and two wells on April 24, 2014.

Monitoring wells were purged using a low-flow peristaltic pump and dedicated tubing. Groundwater quality field parameters were measured using a Horiba multi parameter meter and flow cells. Monitoring wells were sampled after depth to water, pH, specific conductivity, and temperature had stabilized. Groundwater elevation data are presented in Table 1. Groundwater monitoring field data sheets are included as Attachment B.

Groundwater samples were collected in laboratory-provided bottles and placed in coolers with ice. Groundwater samples were submitted to Alpha under standard chain-of-custody protocol. Groundwater samples were analyzed for the following COCs:

- TPH-GRO according to Northwest Method NWTPH-Gx
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX collectively) according to EPA Method 8260B.

Groundwater samples from select monitoring wells were also analyzed for:

- TPH-DRO and TPH-HO according to Northwest Method NWTPH-Dx (A-8, A-10, A-14R, MW-07R, MW-1, MW-2, MW-4, MW-5, MW-8, MW-12R, MW-16, MW-20, MW-21, MW-22, MW-25, and SH-02R)
- Total Lead according to EPA Method SW6020/SW6020A (A-14R, A-21, A-23R, A-28R, MW-07R, MW-1, MW-2, MW-3, MW-5, MW-6, MW-7, MW-8, MW-9, MW-12R, MW-23, MW-24, MW-25, and SH-02R)
- Dissolved Lead according to EPA Method SW6020/SW6020A (A-23R and MW-7).

Blind duplicate samples were collected from groundwater monitoring wells MW-7 and MW-24. Groundwater analytical results are presented in Table 2. Dissolved oxygen field measurements and natural attenuation parameters are presented in Table 3. Laboratory analytical reports and chain-of-custody documentation are included as Attachment C.

2.4 Performance Monitoring Sampling and Analysis

2.4.1 Second Quarter Performance Monitoring

Groundwater samples were collected from 12 wells (A-27, MW-7, MW-9, MW-19, TMW-1 through TMW-6, 11, and 12) on April 21 through April 24, 2014 for the Second Quarter performance monitoring event in accordance with the EDR (ARCADIS 2012a) and subsequent RTC (ARCADIS 2012b).

Groundwater monitoring wells were purged and samples were collected using the same methods described in section 2.3. Groundwater monitoring field data sheets are included as Attachment B. Groundwater samples were analyzed for the following COCs and biogeochemical parameters:

- TPH-GRO according to Northwest Method NWTPH-Gx
- BTEX according to EPA Method 8260B
- Nitrate according to EPA Method 300.0
- Sulfate according to EPA Method 300.0
- Sulfide according to Standard Method 4500-S D.

Performance monitoring groundwater analytical results are presented in Table 2 and Table 4. Field measurements and biogeochemical parameters are presented in Table 4. Laboratory analytical reports and chain-of-custody documentation are included as Attachment C.

3. Summary of Results

This section summarizes the results of the compliance monitoring program and the sulfate land application performance monitoring.

3.1 Water Level Measurements

Water levels for the quarterly compliance monitoring event and Second Quarter performance monitoring event were measured on April 22, 2014 using an electronic oil-water interface probe. Measurable SPH was not observed during this event; however, absorbent socks were placed in monitoring wells A-6, 12, and MW-19 as discussed below in section 3.1.1.

Groundwater elevations were calculated using depth-to-water measurements and wellhead survey elevations obtained in July 2003. Groundwater elevations during this sampling event ranged between 5.96 feet amsl (MW-25) and 15.29 feet amsl (MW-18). The groundwater elevation data are presented in Table 1 and a groundwater elevation contour map for the event is presented on Figure 3.

3.1.1 Passive SPH Recovery

During previous groundwater monitoring events measurable SPH or sheens were observed in nine wells (12, A-4, A-6, A-16, MW-7, MW-9, MW-21, MW-23, and MW-24). Based on these observations, passive SPH recovery (absorbent sock placement) was performed in these wells until Third Quarter 2013 when absorbent socks were removed from the wells listed above after a period of approximately 12 months (4 monitoring events) with no measurable SPH.

Following absorbent sock removal, measurable SPH was observed during the Fourth Quarter 2013 event in well A-6, at a thickness of 0.04 foot. A new absorbent sock has been replaced quarterly in this well since the Fourth Quarter 2013 event. During the Second Quarter 2014 event, absorbent socks were added to wells 12 and MW-19 that had observable sheen but did not have measureable SPH. Replacement absorbent socks will be installed in wells A-6, 12, and MW-19 as necessary and new absorbent socks will be placed in groundwater monitoring wells with measurable SPH during future gauging events.

3.2 Compliance Monitoring Groundwater Analytical Results

During the Second Quarter 2014 monitoring event, groundwater samples contained the following constituents of concern:

- TPH-GRO concentrations ranging from less than the laboratory method reporting limit (MRL) (<0.25 mg/L) to 24 mg/L in the sample collected from monitoring well MW-24
- TPH-DRO concentrations ranging from less than the laboratory MRL (<0.25 mg/L) to 5.3 mg/L in the sample collected from monitoring well MW-4
- TPH-DRO with silica gel clean up (SGC) concentrations ranging from less than the laboratory MRL (<0.25 mg/L) to 1.7 mg/L in the sample collected from monitoring well MW-4
- TPH-HO and TPH HO with SGC concentrations were less than the laboratory MRL (<0.50 mg/L) in samples collected from all sampled monitoring wells

- Benzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 1.0 mg/L in the sample collected from monitoring well MW-24
- Toluene concentrations ranging from less than the MRL (<0.0005 mg/L) to 0.051 mg/L in the sample collected from monitoring well MW-24
- Ethylbenzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 1.7 mg/L in the sample collected from monitoring well MW-24
- Total xylenes concentrations ranging from less than the MRL (<0.0005 mg/L) to 3.6 mg/L in the sample collected from monitoring well MW-24
- Total lead concentrations ranging from less than the MRL (<0.0050 mg/L) to 0.027 mg/L in monitoring well MW-8
- Dissolved lead concentrations were less than the MRL (<0.0050 mg/L) in samples collected from all monitoring wells.

Groundwater samples collected from wells A-14R, A-21, A-23R, MW-1, MW-2, MW-3, MW-5, MW-6, MW-07R, MW-14, MW-16, MW-18, and MW-20 did not exhibit COC concentrations at or above the MRLs.

Groundwater analytical results are presented in Table 2 and Figure 4. Historical groundwater monitoring and natural attenuation parameter results are presented in Table 3. Laboratory analytical reports and chain-of-custody documentation are included as Attachment C.

3.3 Performance Monitoring Results

3.3.1 Second Quarter Analytical Results

Groundwater samples collected during the Second Quarter 2014 performance monitoring event contained TPH-GRO concentrations ranging from less than the MRL (<0.25 mg/L) in samples collected from monitoring wells 11, TMW-1, TMW-2 and MW-9, to 5.1 mg/L in the sample collected from monitoring well TMW-6. Sulfate concentrations during the Second Quarter 2014 performance monitoring event ranged from 4.2 mg/L at well A-27 to 4,000 mg/L in monitoring well TMW-5. Sulfide

concentrations during the Second Quarter 2014 performance monitoring event ranged from less than the MRL (<0.10 mg/L) to 0.23 mg/L in monitoring well MW-19.

3.4 Data Validation

Groundwater samples collected during the Second Quarter 2014 performance monitoring event on April 21 through April 24, 2014 were processed within their specified hold times.

Alpha reported the method and laboratory control samples within acceptable limits, with the exception of high matrix spike (MS) recovery of methane from samples collected April 22, 2014 and high matrix spike duplicate (MSD) recovery of methane from samples collected April 23, 2014 and April 24, 2014. A duplicate sample was collected from MW-7 and MW-24 during Second Quarter 2014 compliance monitoring and was analyzed for TPH-GRO and BTEX. The relative percent differences (RPDs) between the analytical results for these COCs in the samples collected from MW-7 and MW-24 were calculated as:

- TPH-GRO – 23.3 percent and 4.3 percent
- Benzene – 14.3 percent and 0 percent
- Toluene – 25.4 percent and 6.1 percent
- Ethylbenzene – 16.7 percent and 0 percent
- Total xylenes - 22.2 percent and 2.7 percent

The detection limits were below site cleanup levels and the surrogate recovery results were within acceptable limits.

4. Conclusions

4.1 Compliance Monitoring

The concentrations of COCs observed during the Second Quarter 2014 compliance monitoring event are consistent, and in many cases continue to decrease, with concentrations encountered during previous groundwater monitoring events. The

remedial action discussed in the next section has been designed to enhance natural biodegradation in areas of the site where concentrations of COCs in groundwater exceed site cleanup levels.

No measurable SPH was observed during the Second Quarter 2014 sampling event; however, sheen was observed in wells A-6, 12, and MW-19. TPH-GRO and TPH-DRO concentrations continue to be stable or decrease across the site, as evidenced by the decreasing trends in monitoring wells MW1, MW-3, MW-7, MW-8, MW-14, MW-19, A-21 and A-27.

4.2 Sulfate Land Application

4.2.1 Second Quarter 2014 Analytical Results

Sulfate concentrations increased (>100 mg/L) at monitoring wells 11, MW-9, TMW-1, TMW-2, and TMW-5 during the Second Quarter 2014 performance monitoring event as a result of the sulfate land application. An average sulfate concentration of 1,412 mg/L was calculated (compared to an average baseline concentration of 6.9 mg/L and a three-month average concentration of 1,657 mg/L) using the MRL value for samples where sulfate was not detected above the MRL, indicating stable concentrations of sulfate in the groundwater system.

Based on data collected since the baseline monitoring event in June 2013, TPH-GRO concentrations exhibited an increasing trend in performance monitoring well A-27, a decreasing or stable trend in eleven performance monitoring wells (11, 12, MW-7, MW-9, MW-19, TMW-1, TMW-2, TMW-3, TMW-4, TMW-5, and TMW-6) and remained below the MRL in well TMW-1 during the Second Quarter 2014 event. Performance monitoring is generally progressing toward the cleanup levels outlined in section 1.2 of this report.

The increasing trend in performance monitoring well A-27 is likely unrelated to sulfate land application, as increased sulfate concentrations were not detected above baseline concentrations.

Since the baseline monitoring event in June 2013, benzene concentrations exhibited a decreasing trend in performance monitoring well TMW-5 and stable trends in eleven performance monitoring wells (A-27, 11, 12, MW-7, MW-9, MW-19, TMW-1, TMW-2, TMW-3, TMW-4, and TMW-6). Wells 11 and TMW-1 have remained below the MRL



since the baseline monitoring event. Performance monitoring is generally progressing toward the cleanup levels outlined in section 1.2 of this report.

The next compliance monitoring event is the Third Quarter 2014 groundwater monitoring scheduled for July 2014 and will be conducted in conjunction with the next performance monitoring event (approximately one year post-construction).

5. References

Antea Group. 2011. Quarterly Groundwater Monitoring Report Third Quarter 2011. November.

ARCADIS U.S., Inc, 2012a. B and D Yards Groundwater Remediation – Engineering Design Report. October 12.

ARCADIS U.S., Inc, 2012b. Response to Comments, B and D Yards – Groundwater Remediation Engineering Design Report. December 20.

ARCADIS U.S., Inc. 2013c. Third Quarter 2013 Groundwater Monitoring Report. September 9.

ARCADIS U.S., Inc. 2013d. Fourth Quarter 2013 Groundwater Monitoring Report. November 19.

ARCADIS U.S., Inc. 2013a. Remedial Action Report – B and D Yards. August.

Delta Environmental Consulting. 2007. Site-Wide Groundwater Compliance Monitoring Plan – Proposed Reduced Monitoring. June 21.

Delta Environmental Consulting. 2008. Technical Revision Request – Low-Flow Groundwater Sampling. September 4.

KHM Environmental Management, Inc. 1999. Compliance Monitoring Plan. October.



Tables

Table 1**Groundwater Elevation Data**

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-1	02/11/02	10.93	7.47	--	3.46	
A-1	05/20/02	10.93	9.99	--	0.94	
A-1	08/27/02	10.93	4.72	--	6.21	
A-1	11/04/02	10.93	8.95	--	1.98	
A-1	02/18/03	10.93	7.92	--	3.01	
A-1	06/09/03	10.93	8.47	--	2.46	
A-1	09/15/03	14.64	8.83	--	5.81	
A-1	11/18/03	14.64	8.45	--	6.19	
A-1	02/24/04	14.64	7.89	--	6.75	
A-1	05/10/04	14.64	8.53	--	6.11	
A-1	08/24/04	14.64	8.73	--	5.91	
A-1	12/13/04	14.64	8.45	--	6.19	
A-1	03/08/05	14.64	8.59	--	6.05	
A-1	06/06/05	14.64	8.41	--	6.23	
A-1	09/19/05	14.64	8.87	--	5.77	
A-1	12/12/05	14.64	8.63	--	6.01	
A-1	03/13/06	14.64	7.95	--	6.69	
A-1	06/05/06	14.64	8.37	--	6.27	
A-1	09/11/06	14.64	8.81	--	5.83	
A-1	12/11/06	14.64	7.95	--	6.69	
A-2	02/11/02	10.85	7.41	--	3.44	
A-2	05/20/02	10.85	9.28	--	1.57	
A-2	08/27/02	10.85	4.66	--	6.19	
A-2	11/04/02	10.85	8.90	--	1.95	
A-2	02/18/03	10.85	7.98	--	2.87	
A-2	06/09/03	10.85	8.41	--	2.44	
A-2	09/15/03	14.66	8.77	--	5.89	
A-2	11/18/03	14.66	8.35	--	6.31	
A-2	02/24/04	14.66	7.80	--	6.86	
A-2	05/10/04	14.66	8.51	--	6.15	
A-2	08/24/04	14.66	8.55	--	6.11	
A-2	12/13/04	14.66	8.38	--	6.28	
A-2	03/08/05	14.66	8.77	--	5.89	
A-2	06/06/05	14.66	8.45	--	6.21	
A-2	09/19/05	14.66	8.79	--	5.87	
A-2	12/12/05	14.66	8.58	--	6.08	
A-2	03/13/06	14.66	7.81	--	6.85	
A-2	06/05/06	14.66	8.29	--	6.37	
A-2	09/11/06	14.66	8.76	--	5.90	
A-2	12/11/06	14.66	7.96	--	6.70	
A-3	02/11/02	10.50	7.30	<0.01	3.20*	
A-3	05/20/02	10.50	9.03	--	1.47	
A-3	08/27/02	10.50	8.43	--	2.07	
A-3	11/04/02	10.50	8.64	--	1.86	
A-3	02/18/03	10.50	7.61	--	2.89	
A-3	06/09/03	10.50	8.19	--	2.31	
A-3	09/15/03	14.32	8.50	--	5.82	
A-3	11/18/03	14.32	7.56	--	6.76	
A-3	02/24/04	14.32	7.56	--	6.76	
A-3	05/10/04	14.32	8.12	--	6.20	
A-3	08/24/04	14.32	8.23	--	6.09	
A-3	12/13/04	14.32	7.85	--	6.47	
A-3	03/08/05	14.32	8.20	--	6.12	
A-3	06/06/05	14.32	8.03	--	6.29	
A-3	09/19/05	14.32	8.50	--	5.82	
A-3	12/12/05	14.32	8.32	--	6.00	
A-3	03/13/06	14.32	7.51	--	6.81	
A-3	06/05/06	14.32	7.96	--	6.36	
A-3	09/11/06	14.32	8.46	--	5.86	
A-3	12/11/06	14.32	7.56	--	6.76	
A-4	02/11/02	10.74	7.38	0.14	3.47*	
A-4	05/20/02	10.74	8.20	0.02	2.56*	
A-4	08/27/02	10.74	7.62	0.04	3.15*	
A-4	11/04/02	10.74	7.92	Sheen	2.82	Product recovery pump in well

A-4	02/18/03	10.74	7.84	Sheen	2.90	Product recovery pump in well
A-4	06/09/03	10.74	6.40	0.10	4.42*	Product recovery pump in well
A-4	09/15/03	13.22	8.38	0.10	4.92*	Product recovery pump in well
A-4	11/18/03	13.22	6.65	0.01	6.58*	Product recovery pump in well
A-4	02/24/04	13.22	7.00	--	6.22	Product recovery pump in well
A-4	05/10/04	13.22	6.79	--	6.43	Product recovery pump in well
A-4	08/24/04	13.22	7.76	--	5.46	Product recovery pump in well
A-4	12/13/04	13.22	6.10	Sheen	7.12	
A-4	03/08/05	13.22	7.21	Sheen	6.01	
A-4	06/06/05	13.22	7.23	Sheen	5.99	
A-4	09/19/05	13.22	7.78	--	5.44	
A-4	12/12/05	13.22	7.77	--	5.45	
A-4	03/13/06	13.22	6.85	--	6.37	
A-4	06/05/06	13.22	7.30	Sheen	5.92	
A-4	09/11/06	13.22	8.02	0.01	5.21*	
A-4	12/11/06	13.22	7.04	--	6.18	
A-4	03/26/07	13.22	6.90	--	6.32	
A-4	06/18/07	13.22	7.29	--	5.93	
A-4	09/24/07	13.22	7.48	Sheen	5.74	
A-4	12/10/07	13.22	6.83	--	6.39	
A-4	03/03/08	13.22	7.11	0.01	6.12*	
A-4	06/02/08	13.22	7.52	Sheen	5.70	
A-4	09/04/08	13.22	7.57	Sheen	5.65	
A-4	12/04/08	13.22	7.44	--	5.78	
A-4	03/04/09	13.22	7.09	--	6.13	
A-4	06/01/09	13.22	7.32	Sheen	5.90	
A-4	09/21/09	13.22	7.61	Sheen	5.61	
A-4	11/16/09	13.22	6.97	Sheen	6.25	
A-4	03/08/10	13.22	6.54	--	6.68	
A-4	06/07/10	13.22	6.92	Sheen	6.30	
A-4	09/09/10	13.22	7.59	--	5.63	
A-4	11/16/10	13.22	7.11	--	6.11	
A-4	03/01/11	13.22	6.66	--	6.56	
A-4	05/23/11	13.22	6.84	Sheen	6.38	
A-4	08/29/11	13.22	7.50	--	5.72	
A-4	12/01/11	13.22	7.16	--	6.06	
A-4	03/01/12	13.22	--	--	--	Not Measured
A-4	05/30/12	13.22	6.88	--	6.34	
A-4	08/25/12	13.22	7.17	--	6.05	
A-4	11/07/12	13.22	6.77	--	6.45	
A-4	02/28/13	13.22	6.69	--	6.53	
A-4	04/08/13	13.22	6.83	--	6.39	
A-4	07/29/13	13.22	7.23	--	5.99	
A-4	10/02/13	13.22	5.10	--	8.12	
A-4	01/21/14	13.22	7.12	--	6.10	
A-4	04/22/14	13.22	6.71	--	6.51	
A-5	02/11/02	10.42	7.00	--	3.42	
A-5	05/20/02	10.42	8.89	--	1.53	
A-5	08/27/02	10.42	8.25	--	2.17	
A-5	11/04/02	10.42	8.43	--	1.99	
A-5	02/18/03	10.42	7.35	--	3.07	
A-5	06/09/03	10.42	7.99	--	2.43	
A-5	09/15/03	14.13	8.33	Sheen	5.80	
A-5	11/18/03	14.13	7.82	--	6.31	
A-5	02/24/04	14.13	6.45	--	7.68	
A-5	05/10/04	14.13	8.04	--	6.09	
A-5	08/24/04	14.13	8.02	--	6.11	
A-5	12/13/04	14.13	7.88	--	6.25	
A-5	03/08/05	14.13	8.00	--	6.13	
A-5	06/06/05	14.13	7.89	--	6.24	
A-5	09/19/05	14.13	8.37	--	5.76	
A-5	12/12/05	14.13	8.15	--	5.98	
A-5	03/13/06	14.13	7.39	--	6.74	
A-5	06/05/06	14.13	7.82	--	6.31	
A-5	09/11/06	14.13	8.34	--	5.79	
A-5	12/11/06	14.13	7.41	--	6.72	
A-5	03/26/07	14.13	7.41	--	6.72	
A-5	06/18/07	14.13	8.32	--	5.81	
A-5	09/24/07	14.13	8.32	--	5.81	
A-5	12/10/07	14.13	7.66	--	6.47	
A-5	03/03/08	14.13	7.78	--	6.35	
A-5	06/02/08	14.13	8.21	--	5.92	
A-5	09/04/08	14.13	8.10	--	6.03	
A-5	12/04/08	14.13	8.15	--	5.98	
A-5	03/04/09	14.13	7.76	--	6.37	
A-5	06/01/09	14.13	8.03	--	6.10	
A-5	09/21/09	14.13	8.35	--	5.78	
A-5	11/16/09	14.13	7.70	--	6.43	

A-5	03/08/10	14.13	7.21	--	6.92	
A-5	06/07/10	14.13	7.74	--	6.39	
A-5	09/09/10	14.13	8.26	--	5.87	
A-5	11/15/10	14.13	7.85	--	6.28	
A-5	03/01/11	14.13	7.47	--	6.66	
A-5	05/23/11	14.13	7.58	--	6.55	
A-5	08/29/11	14.13	8.17	--	5.96	
A-5	12/01/11	14.13	7.89	--	6.24	
A-5	03/01/12	14.13	7.62	--	6.51	
A-5	05/30/12	14.13	7.67	--	6.46	
A-5	08/25/12	14.13	7.91	--	6.22	
A-5	11/07/12	14.13	7.54	--	6.59	
A-5	02/27/13	14.13	7.59	--	6.54	
A-5	04/08/13	14.13	7.56	--	6.57	
A-5	07/29/13	14.13	7.88	--	6.25	
A-5	10/02/13	14.13	7.64	--	6.49	
A-5	01/21/14	14.13	7.92	--	6.21	
A-5	04/22/14	14.13	7.50	--	6.63	
A-6	02/11/02	--	6.40	0.13	--	Not Measured-Casing Broken
A-6	05/20/02	--	8.13	0.14	--	Not Measured-Casing Broken
A-6	08/27/02	--	7.80	0.45	--	Not Measured-Casing Broken
A-6	11/04/02	--	7.33	0.01	--	Not Measured-Product recovery pump in well, Casing Broken
A-6	02/18/03	--	8.50	Sheen	--	Not Measured-Product recovery pump in well, Casing Broken
A-6	06/09/03	--	7.45	0.01	--	Not Measured-Re-cut TOC; repaired
A-6	09/15/03	12.81	7.77	0.01	5.05*	Product recovery pump in well
A-6	11/18/03	12.81	7.46	0.54	5.78*	Product recovery pump in well
A-6	02/24/04	12.81	6.65	0.40	6.48*	Product recovery pump in well
A-6	05/10/04	12.81	6.95	0.10	5.94*	Product recovery pump in well
A-6	08/24/04	12.81	7.21	0.21	5.77*	Product recovery pump in well
A-6	12/13/04	12.81	6.80	0.14	6.12*	
A-6	03/08/05	12.81	6.98	0.32	6.09*	
A-6	06/06/05	12.81	6.81	0.04	6.03*	
A-6	09/19/05	12.81	7.81	0.59	5.47*	
A-6	10/12/05	12.81	7.95	0.50	5.26*	
A-6	12/12/05	12.81	8.20	0.95	5.37*	
A-6	03/13/06	12.81	6.68	0.08	6.19*	
A-6	06/05/06	12.81	7.10	0.13	5.81*	
A-6	09/11/06	12.81	7.82	0.27	5.21*	
A-6	12/11/06	12.81	6.58	0.02	6.25*	
A-6	03/26/07	12.81	6.51	--	6.30	
A-6	06/18/07	12.81	7.00	--	5.81	
A-6	09/24/07	12.81	7.20	Sheen	5.61	
A-6	12/10/07	12.81	6.58	--	6.23	
A-6	03/03/08	12.81	6.59	--	6.22	
A-6	06/02/08	12.81	7.05	Sheen	5.76	
A-6	09/04/08	12.81	7.19	Sheen	5.62	
A-6	12/04/08	12.81	7.15	Sheen	5.66	
A-6	03/04/09	12.81	6.51	Sheen	6.30	
A-6	06/01/09	12.81	7.00	Sheen	5.81	
A-6	09/21/09	12.81	7.24	Sheen	5.57	
A-6	11/16/09	12.81	6.50	Sheen	6.31	
A-6	03/08/10	12.81	6.14	--	6.67	
A-6	06/07/10	12.81	6.71	Sheen	6.10	
A-6	09/09/10	12.81	7.12	--	5.69	
A-6	11/15/10	12.81	6.79	Sheen	6.02	
A-6	03/01/11	12.81	6.38	Sheen	6.43	
A-6	05/23/11	12.81	6.52	Sheen	6.29	
A-6	08/29/11	12.81	7.04	0.03	5.79*	
A-6	12/01/11	12.81	6.95	Sheen	5.86	
A-6	03/01/12	12.81	6.60	--	6.21	
A-6	05/30/12	12.81	6.58	--	6.23	
A-6	08/25/12	12.81	7.18	--	5.63	
A-6	11/07/12	12.81	6.61	--	6.20	
A-6	02/27/13	12.81	6.54	--	6.27	
A-6	04/08/13	12.81	6.46	--	6.35	
A-6	07/29/13	12.81	6.83	--	5.98	
A-6	10/02/13	12.81	6.66	Sheen	6.15	0.04 ft of SPH observed. Absorbent sock placed in well.
A-6	01/21/14	12.81	6.80	--	6.01	
A-6	04/22/14	12.81	6.32	--	6.49	
A-7	02/11/02	9.50	6.25	--	3.25	
A-7	05/20/02	9.50	8.10	--	1.40	
A-7	08/27/02	9.50	7.40	--	2.10	
A-7	11/04/02	9.50	7.55	--	1.95	
A-7	02/18/03	9.50	7.53	--	1.97	

A-7	06/09/03	9.50	7.12	--	2.38
A-7	09/15/03	13.43	7.45	--	5.98
A-7	11/18/03	13.43	6.78	--	6.65
A-7	02/24/04	13.43	6.89	--	6.54
A-7	05/10/04	13.43	6.66	--	6.77
A-7	08/24/04	13.43	7.67	--	5.76
A-7	12/13/04	13.43	6.88	--	6.55
A-7	03/08/05	13.43	4.45	--	8.98
A-7	06/06/05	13.43	6.84	--	6.59
A-7	09/19/05	13.43	7.47	--	5.96
A-7	12/12/05	13.43	7.22	--	6.21
A-7	03/13/06	13.43	6.41	--	7.02
A-7	06/05/06	13.43	6.90	--	6.53
A-7	09/11/06	13.43	7.53	--	5.90
A-7	12/11/06	13.43	6.69	--	6.74
A-8	02/11/02	10.46	6.98	--	3.48
A-8	05/20/02	10.46	8.87	--	1.59
A-8	08/27/02	10.46	7.26	--	3.20
A-8	11/04/02	10.46	8.51	--	1.95
A-8	02/18/03	10.46	4.83	--	5.63
A-8	06/09/03	10.46	8.11	--	2.35
A-8	09/15/03	14.61	8.38	--	6.23
A-8	11/18/03	14.61	7.87	Sheen	6.74
A-8	02/24/04	14.61	7.43	--	7.18
A-8	05/10/04	14.61	8.04	--	6.57
A-8	08/24/04	14.61	8.18	--	6.43
A-8	12/13/04	14.61	7.90	--	6.71
A-8	03/08/05	14.61	8.11	--	6.50
A-8	06/06/05	14.61	7.98	--	6.63
A-8	09/19/05	14.61	8.44	--	6.17
A-8	12/12/05	14.61	8.22	--	6.39
A-8	03/13/06	14.61	7.49	--	7.12
A-8	06/05/06	14.61	7.89	--	6.72
A-8	09/11/06	14.61	8.45	--	6.16
A-8	12/11/06	14.61	7.66	--	6.95
A-8	03/26/07	14.61	7.71	--	6.90
A-8	06/18/07	14.61	8.27	--	6.34
A-8	09/24/07	14.61	8.50	--	6.11
A-8	12/10/07	14.61	7.44	--	7.17
A-8	03/03/08	14.61	7.83	--	6.78
A-8	06/02/08	14.61	8.20	--	6.41
A-8	09/04/08	14.61	--	--	Inaccessible
A-8	12/04/08	14.61	8.20	--	6.41
A-8	03/04/09	14.61	7.70	--	6.91
A-8	06/01/09	14.61	8.11	--	6.50
A-8	09/21/09	14.61	8.37	--	6.24
A-8	11/16/09	14.61	7.70	--	6.91
A-8	03/08/10	14.61	7.31	--	7.30
A-8	06/07/10	14.61	7.85	--	6.76
A-8	09/09/10	14.61	8.28	--	6.33
A-8	11/15/10	14.61	7.94	--	6.67
A-8	03/01/11	14.61	7.56	--	7.05
A-8	05/23/11	14.61	7.70	--	6.91
A-8	08/29/11	14.61	8.21	--	6.40
A-8	12/01/11	14.61	8.06	--	6.55
A-8	03/01/12	14.61	7.74	--	6.87
A-8	05/30/12	14.61	7.87	--	6.74
A-8	08/25/12	14.61	7.97	--	6.64
A-8	11/07/12	14.61	7.63	--	6.98
A-8	02/27/13	14.61	8.71	--	5.90
A-8	04/08/13	14.61	7.67	--	6.94
A-8	07/29/13	14.61	7.98	--	6.63
A-8	10/02/13	14.61	7.75	--	6.86
A-8	01/21/14	14.61	7.98	--	6.63
A-8	04/22/14	14.61	7.52	--	7.09
A-9	02/11/02	10.35	7.20	0.01	3.16*
A-9	05/20/02	10.35	8.86	--	1.49
A-9	08/27/02	10.35	8.27	Sheen	2.08
A-9	11/04/02	10.35	8.39	0.01	1.97*
A-9	02/18/03	10.35	7.45	--	2.90
A-9	06/09/03	10.35	8.06	--	2.29
A-9	09/15/03	14.42	8.03	--	6.39
A-9	11/18/03	14.42	7.62	--	6.80
A-9	02/24/04	14.42	7.21	--	7.21
A-9	05/10/04	14.42	8.00	--	6.42
A-9	08/24/04	14.42	8.18	--	6.24
A-9	12/13/04	14.42	7.73	--	6.69
A-9	03/08/05	14.42	8.00	--	6.42

A-9	06/06/05	14.42	7.89	--	6.53
A-9	09/19/05	14.42	8.28	--	6.14
A-9	12/12/05	14.42	8.04	--	6.38
A-9	03/13/06	14.42	7.37	--	7.05
A-9	06/05/06	14.42	7.79	--	6.63
A-9	09/11/06	14.42	8.36	--	6.06
A-9	12/11/06	14.42	7.46	--	6.96
A-10	02/11/02	9.48	6.15	--	3.33
A-10	05/20/02	9.48	7.98	--	1.50
A-10	08/27/02	9.48	7.34	Sheen	2.14
A-10	11/04/02	9.48	7.54	Sheen	1.94
A-10	02/18/03	9.48	6.57	--	2.91
A-10	06/09/03	9.48	7.15	--	2.33
A-10	09/15/03	13.51	7.45	Sheen	6.06
A-10	11/18/03	13.51	6.95	Sheen	6.56
A-10	02/24/04	13.51	6.50	Sheen	7.01
A-10	05/10/04	13.51	7.15	Sheen	6.36
A-10	08/24/04	13.51	7.31	--	6.20
A-10	12/13/04	13.51	6.95	--	6.56
A-10	03/08/05	13.51	7.17	--	6.34
A-10	06/06/05	13.51	7.01	--	6.50
A-10	09/19/05	13.51	7.54	--	5.97
A-10	12/12/05	13.51	7.25	--	6.26
A-10	03/13/06	13.51	6.58	--	6.93
A-10	06/05/06	13.51	6.92	--	6.59
A-10	09/11/06	13.51	7.43	--	6.08
A-10	12/11/06	13.51	6.59	--	6.92
A-10	03/26/07	13.51	6.83	--	6.68
A-10	06/18/07	13.51	7.29	--	6.22
A-10	09/24/07	13.51	7.44	--	6.07
A-10	12/10/07	13.51	6.79	--	6.72
A-10	03/03/08	13.51	7.83	--	5.68
A-10	06/02/08	13.51	7.31	--	6.20
A-10	09/04/08	13.51	7.23	--	6.28
A-10	12/04/08	13.51	6.87	--	6.64
A-10	03/04/09	13.51	6.90	--	6.61
A-10	06/01/09	13.51	7.18	--	6.33
A-10	09/21/09	13.51	7.39	--	6.12
A-10	11/16/09	13.51	6.84	--	6.67
A-10	03/08/10	13.51	6.34	--	7.17
A-10	06/07/10	13.51	6.84	--	6.67
A-10	09/09/10	13.51	7.34	--	6.17
A-10	11/15/10	13.51	6.93	--	6.58
A-10	03/01/11	13.51	6.60	--	6.91
A-10	05/23/11	13.51	6.68	--	6.83
A-10	08/29/11	13.51	7.25	--	6.26
A-10	12/01/11	13.51	6.96	--	6.55
A-10	03/01/12	13.51	6.72	--	6.79
A-10	05/30/12	13.51	6.72	--	6.79
A-10	08/25/12	13.51	7.30	--	6.21
A-10	11/07/12	13.51	7.08	--	6.43
A-10	02/27/13	13.51	6.64	--	6.87
A-10	04/08/13	13.51	6.61	--	6.90
A-10	07/29/13	13.51	6.95	--	6.56
A-10	10/02/13	13.51	6.46	--	7.05
A-10	01/21/14	13.51	7.05	--	6.46
A-10	04/22/14	13.51	6.65	--	6.86
A-11	02/11/02	10.36	7.01	--	3.35
A-11	05/20/02	10.36	8.83	--	1.53
A-11	08/27/02	10.36	8.21	--	2.15
A-11	11/04/02	10.36	8.73	--	1.63
A-11	02/18/03	10.36	5.42	--	4.94
A-11	06/09/03	10.36	8.01	--	2.35
A-11	09/15/03	14.40	8.32	--	6.08
A-11	11/18/03	14.40	6.71	--	7.69
A-11	02/24/04	14.40	7.35	--	7.05
A-11	05/10/04	14.40	8.10	--	6.30
A-11	08/24/04	14.40	8.17	--	6.23
A-11	12/13/04	14.40	7.85	--	6.55
A-11	03/08/05	14.40	7.90	--	6.50
A-11	06/06/05	14.40	7.88	--	6.52
A-11	09/19/05	14.40	8.34	0.01	6.07*
A-11	10/12/05	14.40	8.24	--	6.16
A-11	12/12/05	14.40	8.10	--	6.30
A-11	03/13/06	14.40	7.40	--	7.00
A-11	06/05/06	14.40	7.80	--	6.60
A-11	09/11/06	14.40	8.32	--	6.08
A-11	12/11/06	14.40	7.42	--	6.98

A-11	12/10/07	14.40	7.64	--	6.76	
A-11	03/03/08	14.40	7.39	--	7.01	
A-11	03/04/09	14.40	7.70	--	6.70	
A-11	06/01/09	14.40	8.00	--	6.40	
A-11	09/21/09	14.40	8.26	--	6.14	
A-11	11/16/09	14.40	7.65	--	6.75	
A-11	03/08/10	14.40	7.20	--	7.20	
A-11	06/07/10	14.40	7.69	--	6.71	
A-11	09/09/10	14.40	8.20	--	6.20	
A-11	11/15/10	14.40	7.78	--	6.62	
A-11	03/01/11	14.40	7.43	--	6.97	
A-11	05/23/11	14.40	7.52	--	6.88	
A-11	08/29/11	14.40	8.09	--	6.31	
A-11	12/01/11	14.40	7.82	--	6.58	
A-11	03/01/12	14.40	7.55	--	6.85	
A-11	05/30/12	14.40	7.42	--	6.98	
A-11	08/25/12	14.40	7.63	--	6.77	
A-11	11/07/12	14.40	7.41	--	6.99	
A-11	02/27/13	14.40	7.42	--	6.98	
A-11	04/08/13	14.40	7.42	--	6.98	
A-11	07/29/13	14.40	7.75	--	6.65	
A-11	10/02/13	14.40	7.66	--	6.74	
A-11	01/21/14	14.40	7.93	--	6.47	
A-11	04/22/14	14.40	7.56	--	6.84	
A-12	02/11/02	9.10	5.80	--	3.30	
A-12	05/20/02	9.10	8.68	--	0.42	
A-12	08/27/02	9.10	7.04	--	2.06	
A-12	11/04/02	9.10	7.23	--	1.87	
A-12	02/18/03	9.10	6.38	--	2.72	
A-12	06/09/03	9.10	6.83	--	2.27	
A-12	09/15/03	12.92	7.15	--	5.77	
A-12	11/18/03	12.92	6.60	--	6.32	
A-12	02/24/04	12.92	6.12	--	6.80	
A-12	05/10/04	12.92	6.74	--	6.18	
A-12	08/24/04	12.92	6.95	--	5.97	
A-12	12/13/04	12.92	6.57	--	6.35	
A-12	03/08/05	12.92	6.75	Sheen	6.17	
A-12	06/06/05	12.95	6.39	--	6.56	
A-12	09/19/05	12.95	7.09	--	5.86	
A-12	12/12/05	12.95	6.89	--	6.06	
A-12	03/13/06	12.95	6.23	--	6.72	
A-12	06/05/06	12.95	6.60	--	6.35	
A-12	09/11/06	12.95	7.14	--	5.81	
A-12	12/11/06	12.95	6.28	--	6.67	
A-12	12/10/07	12.95	6.43	--	6.52	
A-12	03/03/08	12.95	6.50	--	6.45	
A-12	03/04/09	12.95	6.39	--	6.56	
A-12	06/01/09	12.95	6.86	--	6.09	
A-12	09/21/09	12.95	7.02	--	5.93	
A-12	11/16/09	12.95	6.38	--	6.57	
A-12	03/08/10	12.95	6.00	--	6.95	
A-12	06/07/10	12.95	6.54	--	6.41	
A-12	09/09/10	12.95	6.95	--	6.00	
A-12	11/15/10	12.95	6.60	--	6.35	
A-12	03/01/11	12.95	6.24	--	6.71	
A-12	05/23/11	12.95	6.34	--	6.61	
A-12	08/29/11	12.95	6.87	--	6.08	
A-12	12/01/11	12.95	6.66	--	6.29	
A-12	03/01/12	12.95	6.46	--	6.49	
A-12	05/30/12	12.95	6.35	--	6.60	
A-12	08/25/12	12.95	6.57	--	6.38	
A-12	11/07/12	12.95	6.27	--	6.68	
A-12	02/27/13	12.95	6.32	--	6.63	
A-12	04/08/13	12.95	6.28	--	6.67	
A-12	07/29/13	12.95	6.58	--	6.37	
A-12	10/02/13	12.95	6.41	--	6.54	
A-12	01/21/14	12.95	6.67	--	6.28	
A-12	04/22/14	12.95	6.29	--	6.66	
A-13	03/27/01	--	--	--	--	Destroyed during construction activities
A-13	Destroyed during construction activities					
A-14	03/27/01	--	--	--	--	Destroyed during construction activities
A-14	Destroyed during construction activities					
A-14R	02/11/02	12.62	6.90	--	5.72	
A-14R	05/20/02	12.62	9.77	--	2.85	
A-14R	08/27/02	12.62	8.10	--	4.52	
A-14R	11/04/02	12.62	8.30	--	4.32	

A-14R	02/18/03	10.17	7.31	--	2.86
A-14R	06/09/03	10.17	4.82	--	5.35
A-14R	09/15/03	14.21	8.20	--	6.01
A-14R	11/18/03	14.21	6.10	Sheen	8.11
A-14R	02/24/04	14.21	7.23	--	6.98
A-14R	05/10/04	14.21	7.89	--	6.32
A-14R	08/24/04	14.21	8.01	--	6.20
A-14R	12/13/04	14.21	7.75	--	6.46
A-14R	03/08/05	14.21	7.87	--	6.34
A-14R	06/06/05	14.21	7.71	--	6.50
A-14R	09/19/05	14.21	8.16	0.15	6.17*
A-14R	10/12/05	14.21	8.01	--	6.20
A-14R	12/12/05	14.21	7.95	--	6.26
A-14R	03/13/06	14.21	7.26	--	6.95
A-14R	06/05/06	14.21	7.64	--	6.57
A-14R	09/11/06	14.21	8.15	--	6.06
A-14R	12/11/06	14.21	7.30	--	6.91
A-14R	03/26/07	14.21	7.51	--	6.70
A-14R	06/18/07	14.21	7.98	--	6.23
A-14R	09/24/07	14.21	8.18	--	6.03
A-14R	12/10/07	14.21	7.51	--	6.70
A-14R	03/03/08	14.21	7.56	--	6.65
A-14R	06/02/08	14.21	8.02	--	6.19
A-14R	09/04/08	14.21	7.71	--	6.50
A-14R	12/04/08	14.21	7.92	--	6.29
A-14R	03/04/09	14.21	7.62	--	6.59
A-14R	06/01/09	14.21	7.91	--	6.30
A-14R	09/21/09	14.21	8.08	--	6.13
A-14R	11/16/09	14.21	7.57	--	6.64
A-14R	03/08/10	14.21	7.05	--	7.16
A-14R	06/07/10	14.21	7.56	--	6.65
A-14R	09/09/10	14.21	8.05	--	6.16
A-14R	11/15/10	14.21	7.63	--	6.58
A-14R	03/01/11	14.21	7.31	--	6.90
A-14R	05/23/11	14.21	7.40	--	6.81
A-14R	08/29/11	14.21	7.97	--	6.24
A-14R	12/01/11	14.21	7.68	--	6.53
A-14R	03/01/12	14.21	7.42	--	6.79
A-14R	05/30/12	14.21	7.44	--	6.77
A-14R	08/25/12	14.21	7.59	--	6.62
A-14R	11/07/12	14.21	7.33	--	6.88
A-14R	02/27/13	14.21	7.38	--	6.83
A-14R	04/08/13	14.21	7.34	--	6.87
A-14R	07/29/13	14.21	7.67	--	6.54
A-14R	10/02/13	14.21	7.51	--	6.70
A-14R	01/21/14	14.21	7.76	--	6.45
A-14R	04/22/14	14.21	7.36	--	6.85
A-15	03/27/01	--	--	--	Destroyed during construction activities
A-15 Destroyed during construction activities					
A-16	02/11/02	10.49	7.23	0.01	3.27*
A-16	05/20/02	10.49	9.03	--	1.46
A-16	08/27/02	10.49	8.41	0.04	2.11*
A-16	11/04/02	10.49	8.81	0.28	1.90*
A-16	02/18/03	10.49	7.51	Sheen	2.98
A-16	06/09/03	10.49	8.16	--	2.33
A-16	09/15/03	14.39	8.80	0.01	5.60*
A-16	11/18/03	14.39	7.74	--	6.65
A-16	02/24/04	14.39	7.54	--	6.85
A-16	05/10/04	14.39	8.50	0.31	6.14*
A-16	08/24/04	14.39	9.03	0.82	6.02*
A-16	12/13/04	14.39	8.08	Sheen	6.31
A-16	03/08/05	14.39	7.90	Sheen	6.49
A-16	06/06/05	14.39	8.05	Sheen	6.34
A-16	09/19/05	14.39	9.24	0.90	5.87*
A-16	10/12/05	14.39	9.38	1.20	5.97*
A-16	12/12/05	14.39	8.22	--	6.17
A-16	03/13/06	14.39	7.75	--	6.64
A-16	06/05/06	14.39	7.98	--	6.41
A-16	09/11/06	14.39	9.20	0.90	5.91*
A-16	12/11/06	14.39	7.69	Sheen	6.70
A-16	03/26/07	14.39	7.78	Sheen	6.61
A-16	06/18/07	14.39	8.45	0.34	6.21*
A-16	09/24/07	14.39	8.45	0.02	5.96*
A-16	12/10/07	14.39	7.65	0.01	6.75*
A-16	03/03/08	14.39	7.88	Sheen	6.51
A-16	06/02/08	14.39	8.77	0.04	5.65*
A-16	09/04/08	14.39	7.38	0.04	7.04*

A-16	12/04/08	14.39	8.27	--	6.12
A-16	03/04/09	14.39	7.95	--	6.44
A-16	06/01/09	14.39	8.50	Sheen	5.89
A-16	09/21/09	14.39	8.80	0.35	5.87*
A-16	11/16/09	14.39	7.95	Sheen	6.44
A-16	03/08/10	14.39	7.40	--	6.99
A-16	06/07/10	14.39	7.91	Sheen	6.48
A-16	09/09/10	14.39	8.92	0.09	5.54*
A-16	11/15/10	14.39	8.21	Sheen	6.18
A-16	03/01/11	14.39	7.65	--	6.74
A-16	05/23/11	14.39	7.79	--	6.60
A-16	08/29/11	14.39	8.52	0.10	5.95*
A-16	12/01/11	14.39	8.24	Sheen	6.15
A-16	03/01/12	14.39	7.94	Sheen	6.45
A-16	05/30/12	14.39	7.67	--	6.72
A-16	08/25/12	14.39	7.79	--	6.60
A-16	11/07/12	14.39	7.56	--	6.83
A-16	02/27/13	14.39	7.66	--	6.73
A-16	04/08/13	14.39	7.56	--	6.83
A-16	07/29/13	14.39	7.88	--	6.51
A-16	10/02/13	14.39	7.46	--	6.93
A-16	01/21/14	14.39	8.05	--	6.34
A-16	04/22/14	14.39	7.66	--	6.73
A-17	02/11/02	9.51	6.09	--	3.42
A-17	05/20/02	9.51	7.92	--	1.59
A-17	08/27/02	9.51	7.33	--	2.18
A-17	11/04/02	9.51	8.52	--	0.99
A-17	02/18/03	9.51	6.51	--	3.00
A-17	06/09/03	9.51	7.19	--	2.32
A-17	09/15/03	13.41	7.43	--	5.98
A-17	11/18/03	13.41	7.85	--	5.56
A-17	02/24/04	13.41	6.47	--	6.94
A-17	05/10/04	13.41	7.11	--	6.30
A-17	08/24/04	13.41	7.12	--	6.29
A-17	12/13/04	13.41	6.90	--	6.51
A-17	03/08/05	13.41	7.15	--	6.26
A-17	06/06/05	13.41	6.89	--	6.52
A-17	09/19/05	13.41	7.55	--	5.86
A-17	12/12/05	13.41	7.24	--	6.17
A-17	03/13/06	13.41	6.50	--	6.91
A-17	06/05/06	13.41	6.94	--	6.47
A-17	09/11/06	13.41	8.34	--	5.07
A-17	12/11/06	13.41	6.79	--	6.62
A-18	02/11/02	10.72	7.42	--	3.30
A-18	05/20/02	10.72	9.22	--	1.50
A-18	08/27/02	10.72	8.59	--	2.13
A-18	11/04/02	10.72	9.80	--	0.92
A-18	02/18/03	10.72	8.36	--	2.36
A-18	06/09/03	10.72	8.36	--	2.36
A-18	09/15/03	14.74	8.65	--	6.09
A-18	11/18/03	14.74	8.22	--	6.52
A-18	02/24/04	14.74	7.06	--	7.68
A-18	05/10/04	14.74	8.50	--	6.24
A-18	08/24/04	14.74	8.56	--	6.18
A-18	12/13/04	14.74	8.23	--	6.51
A-18	03/08/05	14.74	8.33	--	6.41
A-18	06/06/05	14.74	8.21	--	6.53
A-18	09/19/05	14.74	8.67	0.02	6.09*
A-18	10/12/05	14.74	8.55	--	6.19
A-18	12/12/05	14.74	8.42	--	6.32
A-18	03/13/06	14.74	7.74	--	7.00
A-18	06/05/06	14.74	8.14	--	6.60
A-18	09/11/06	14.74	8.63	--	6.11
A-18	12/11/06	14.74	7.78	--	6.96
A-18	12/10/07	14.74	7.81	--	6.93
A-18	03/03/08	14.74	8.03	--	6.71
A-18	03/04/09	14.74	8.07	--	6.67
A-18	06/01/09	14.74	8.34	--	6.40
A-18	09/21/09	14.74	8.57	--	6.17
A-18	11/16/09	14.74	8.07	--	6.67
A-18	03/08/10	14.74	7.54	--	7.20
A-18	06/07/10	14.74	8.00	--	6.74
A-18	09/09/10	14.74	8.53	--	6.21
A-18	11/15/10	14.74	8.11	--	6.63
A-18	03/01/11	14.74	7.75	--	6.99
A-18	05/23/11	14.74	7.85	--	6.89
A-18	08/29/11	14.74	8.44	--	6.30
A-18	12/01/11	14.74	8.11	--	6.63

A-18	03/01/12	14.74	7.83	--	6.91
A-18	05/30/12	14.74	7.75	--	6.99
A-18	08/25/12	14.74	7.89	--	6.85
A-18	11/07/12	14.74	7.68	--	7.06
A-18	02/27/13	14.74	7.72	--	7.02
A-18	04/08/13	14.74	7.05	--	7.69
A-18	07/29/13	14.74	7.99	--	6.75
A-18	10/02/13	14.74	7.93	--	6.81
A-18	01/21/14	14.74	8.27	--	6.47
A-18	04/22/14	14.74	7.84	--	6.90
A-19	02/11/02	10.76	7.52	0.07	3.30*
A-19	05/20/02	10.76	9.19	--	1.57
A-19	08/27/02	10.76	7.61	Sheen	3.15
A-19	11/04/02	10.76	8.79	0.01	1.98*
A-19	02/18/03	10.76	7.70	Sheen	3.06
A-19	06/09/03	10.76	8.35	0.01	2.42*
A-19	09/15/03	14.57	8.71	0.01	5.87*
A-19	11/18/03	14.57	7.69	0.01	6.89*
A-19	02/24/04	14.57	7.81	Sheen	6.76
A-19	05/10/04	14.57	8.35	Sheen	6.22
A-19	08/24/04	14.57	8.68	Sheen	5.89
A-19	12/13/04	14.57	7.98	Sheen	6.59
A-19	03/08/05	14.57	8.28	--	6.29
A-19	06/06/05	14.57	7.26	--	7.31
A-19	09/19/05	14.57	8.66	0.03	5.93*
A-19	10/12/05	14.57	8.55	0.02	6.04*
A-19	12/12/05	14.57	8.46	0.06	6.16*
A-19	03/13/06	14.57	7.65	--	6.92
A-19	06/05/06	14.57	8.10	--	6.47
A-19	09/11/06	14.57	8.63	0.03	5.96*
A-19	12/11/06	14.57	7.65	--	6.92
A-19	03/26/07	14.57	7.89	--	6.68
A-19	06/18/07	14.57	8.36	--	6.21
A-19	09/25/07	14.57	8.64	--	5.93
A-19	12/10/07	14.57	7.82	--	6.75
A-19	03/03/08	14.57	7.95	--	6.62
A-19	06/02/08	14.57	9.84	--	4.73
A-19	09/04/08	14.57	8.30	--	6.27
A-19	12/04/08	14.57	8.99	--	5.58
A-19	03/04/09	14.57	7.89	--	6.68
A-19	06/01/09	14.57	10.47	--	4.10
A-19	09/21/09	14.57	8.53	--	6.04
A-19	11/16/09	14.57	7.87	--	6.70
A-19	03/08/10	14.57	7.45	--	7.12
A-19	06/07/10	14.57	7.19	--	7.38
A-19	09/09/10	14.57	8.41	--	6.16
A-19	11/15/10	14.57	7.94	--	6.63
A-19	03/01/11	14.57	7.72	--	6.85
A-19	05/23/11	14.57	7.82	--	6.75
A-19	08/29/11	14.57	8.39	--	6.18
A-19	12/01/11	14.57	8.14	--	6.43
A-19	03/01/12	14.57	7.82	--	6.75
A-19	05/30/12	14.57	7.75	--	6.82
A-19	08/25/12	14.57	7.88	--	6.69
A-19	11/07/12	14.57	7.22	--	7.35
A-19	02/27/13	14.57	7.68	--	6.89
A-19	04/08/13	14.57	7.68	--	6.89
A-19	07/29/13	14.57	7.93	--	6.64
A-19	10/02/13	14.57	7.78	--	6.79
A-19	01/21/14	14.57	8.86	--	5.71
A-19	04/22/14	14.57	7.72	--	6.85
A-20	02/11/02	10.30	7.16	--	3.14
A-20	05/20/02	10.30	9.76	--	0.54
A-20	08/27/02	10.30	5.19	--	5.11
A-20	11/04/02	10.30	8.39	--	1.91
A-20	02/18/03	10.30	7.38	--	2.92
A-20	06/09/03	10.30	7.95	--	2.35
A-20	09/15/03	14.19	8.25	--	5.94
A-20	11/18/03	14.19	7.70	--	6.49
A-20	02/24/04	14.19	7.29	0.02	6.92*
A-20	05/10/04	14.19	7.99	--	6.20
A-20	08/24/04	14.19	8.18	--	6.01
A-20	12/13/04	14.19	7.65	--	6.54
A-20	03/08/05	14.19	7.89	--	6.30
A-20	06/06/05	14.19	7.81	--	6.38
A-20	09/19/05	14.19	8.25	0.01	5.95*
A-20	10/12/05	14.19	8.12	--	6.07
A-20	12/12/05	14.19	8.00	--	6.19

A-20	03/13/06	14.19	7.25	--	6.94
A-20	06/05/06	14.19	7.72	--	6.47
A-20	09/11/06	14.19	8.22	--	5.97
A-20	12/11/06	14.19	7.28	--	6.91
A-20	03/26/07	14.19	7.51	--	6.68
A-20	06/18/07	14.19	7.98	--	6.21
A-20	09/25/07	14.19	8.19	--	6.00
A-20	12/10/07	14.19	7.45	--	6.74
A-20	03/03/08	14.19	7.55	--	6.64
A-20	06/02/08	14.19	8.48	--	5.71
A-20	09/04/08	14.19	7.92	--	6.27
A-20	12/04/08	14.19	7.99	--	6.20
A-20	03/04/09	14.19	7.19	--	7.00
A-20	06/01/09	14.19	8.38	--	5.81
A-20	09/21/09	14.19	8.11	--	6.08
A-20	11/16/09	14.19	7.43	--	6.76
A-20	03/08/10	14.19	7.15	--	7.04
A-20	06/07/10	14.19	7.54	--	6.65
A-20	09/09/10	14.19	8.03	--	6.16
A-20	11/15/10	14.19	7.51	--	6.68
A-20	03/01/11	14.19	7.34	--	6.85
A-20	05/23/11	14.19	7.45	--	6.74
A-20	08/29/11	14.19	8.03	--	6.16
A-20	12/01/11	14.19	7.70	--	6.49
A-20	03/01/12	14.19	7.41	--	6.78
A-20	05/30/12	14.19	7.30	--	6.89
A-20	08/25/12	14.19	7.46	--	6.73
A-20	11/07/12	14.19	6.61	--	7.58
A-20	02/27/13	14.19	7.21	--	6.98
A-20	04/08/13	14.19	6.96	--	7.23
A-20	07/29/13	14.19	7.46	--	6.73
A-20	10/02/13	14.19	7.40	--	6.79
A-20	01/21/14	14.19	7.77	--	6.42
A-20	04/22/14	14.19	7.38	--	6.81
A-21	02/11/02	10.40	7.18	--	3.22
A-21	05/20/02	10.40	9.88	Sheen	0.52
A-21	08/27/02	10.40	8.28	--	2.12
A-21	11/04/02	10.40	8.50	--	1.90
A-21	02/18/03	10.40	7.47	--	2.93
A-21	06/09/03	10.40	8.01	--	2.39
A-21	09/15/03	14.35	8.65	--	5.70
A-21	11/18/03	14.35	7.86	--	6.49
A-21	02/24/04	14.35	7.43	--	6.92
A-21	05/10/04	14.35	8.10	--	6.25
A-21	08/24/04	14.35	8.29	--	6.06
A-21	12/13/04	14.35	7.75	--	6.60
A-21	03/08/05	14.35	8.00	--	6.35
A-21	06/06/05	14.35	7.90	--	6.45
A-21	09/19/05	14.35	8.24	--	6.11
A-21	12/12/05	14.35	8.15	--	6.20
A-21	03/13/06	14.35	7.38	--	6.97
A-21	06/05/06	14.35	7.21	--	7.14
A-21	09/11/06	14.35	8.31	--	6.04
A-21	12/11/06	14.35	7.44	--	6.91
A-21	03/26/07	14.35	7.64	--	6.71
A-21	06/18/07	14.35	8.15	--	6.20
A-21	09/25/07	14.35	8.30	--	6.05
A-21	12/10/07	14.35	7.62	--	6.73
A-21	03/03/08	14.35	7.67	--	6.68
A-21	06/02/08	14.35	8.18	--	6.17
A-21	09/04/08	14.35	8.09	--	6.26
A-21	12/04/08	14.35	8.07	--	6.28
A-21	03/04/09	14.35	7.51	--	6.84
A-21	06/01/09	14.35	8.03	--	6.32
A-21	09/21/09	14.35	8.27	--	6.08
A-21	11/16/09	14.35	7.68	--	6.67
A-21	03/08/10	14.35	7.26	--	7.09
A-21	06/07/10	14.35	7.66	--	6.69
A-21	09/09/10	14.35	8.19	--	6.16
A-21	11/15/10	14.35	7.73	--	6.62
A-21	03/01/11	14.35	7.42	--	6.93
A-21	05/23/11	14.35	7.56	--	6.79
A-21	08/29/11	14.35	8.11	--	6.24
A-21	12/01/11	14.35	7.81	--	6.54
A-21	03/01/12	14.35	7.53	--	6.82
A-21	05/30/12	14.35	7.37	--	6.98
A-21	08/25/12	14.35	7.49	--	6.86
A-21	11/07/12	14.35	7.04	--	7.31

A-21	02/27/13	14.35	7.32	--	7.03	
A-21	04/08/13	14.35	7.23	--	7.12	
A-21	07/29/13	14.35	7.59	--	6.76	
A-21	10/02/13	14.35	7.57	--	6.78	
A-21	01/21/14	14.35	8.71	--	5.64	
A-21	04/22/14	14.35	7.59	--	6.76	
A-22	09/21/01	10.69	--	--	--	Destroyed
A-22				Destroyed		
A-22R	02/11/02	10.22	7.10	0.13	3.22*	
A-22R	05/20/02	10.22	9.72	0.08	0.56*	
A-22R	08/27/02	10.22	8.20	0.16	2.15*	
A-22R	11/04/02	10.22	8.30	0.15	2.04*	
A-22R	02/18/03	10.22	7.14	0.02	3.10*	
A-22R	06/09/03	10.22	7.82	--	2.40	
A-22R	09/15/03	14.11	8.40	0.01	5.72*	
A-22R	11/18/03	14.11	7.70	0.05	6.45*	
A-22R	02/24/04	14.11	7.01	Sheen	7.10	
A-22R	05/10/04	14.11	7.68	<0.01	6.43*	
A-22R	08/24/04	14.11	7.90	0.18	6.35*	
A-22R	12/13/04	14.11	7.40	Sheen	6.71	
A-22R	03/08/05	14.11	7.08	--	7.03	
A-22R	06/06/05	14.11	7.21	--	6.90	
A-22R	09/19/05	14.11	8.11	0.01	6.01*	
A-22R	10/12/05	14.11	8.22	0.20	6.05*	
A-22R	12/12/05	14.11	7.87	--	6.24	
A-22R	03/13/06	14.11	7.15	--	6.96	
A-22R	06/05/06	14.11	7.75	--	6.36	
A-22R	09/11/06	14.11	8.16	--	5.95	
A-22R	12/11/06	14.11	7.14	--	6.97	
A-22R	03/26/07	14.11	7.34	--	6.77	
A-22R	06/18/07	14.11	7.86	--	6.25	
A-22R	12/10/07	14.11	7.38	--	6.73	
A-22R	03/03/08	14.11	7.47	--	6.64	
A-22R	06/02/08	14.11	8.90	--	5.21	
A-22R	09/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	12/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	03/04/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	06/01/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	09/21/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	11/16/09	14.11	7.36	--	6.75	
A-22R	03/08/10	14.11	6.95	--	7.16	
A-22R	06/07/10	14.11	7.52	--	6.59	
A-22R	09/09/10	14.11	7.94	--	6.17	
A-22R	11/15/10	14.11	7.92	--	6.19	
A-22R	03/01/11	14.11	7.21	--	6.90	
A-22R	05/23/11	14.11	7.35	--	6.76	
A-22R	08/29/11	14.11	7.87	--	6.24	
A-22R	12/01/11	14.11	7.75	--	6.36	
A-22R	03/01/12	14.11	7.37	--	6.74	
A-22R	05/30/12	14.11	7.48	--	6.63	
A-22R	08/25/12	14.11	7.62	--	6.49	
A-22R	11/07/12	14.11	7.18	--	6.93	
A-22R	02/27/13	14.11	7.38	--	6.73	
A-22R	04/08/13	14.11	7.31	--	6.80	
A-22R	07/29/13	14.11	7.64	--	6.47	
A-22R	10/02/13	14.11	7.01	--	7.10	
A-22R	01/21/14	14.11	7.63	--	6.48	
A-22R	04/22/14	14.11	7.11	--	7.00	
A-23	06/14/01	--	--	--	--	Destroyed during construction activities
A-23				Destroyed during construction activities		
A-23R	02/11/02	11.73	8.53	--	3.20	
A-23R	05/20/02	11.73	10.23	--	1.50	
A-23R	08/27/02	11.73	6.63	--	5.10	
A-23R	11/04/02	11.73	9.81	--	1.92	
A-23R	02/18/03	11.73	8.75	--	2.98	
A-23R	06/09/03	11.73	9.35	--	2.38	
A-23R	09/15/03	15.57	10.03	--	5.54	
A-23R	11/18/03	15.57	7.85	--	7.72	
A-23R	02/24/04	15.57	8.05	--	7.52	
A-23R	05/10/04	15.57	8.69	--	6.88	
A-23R	08/24/04	15.57	7.69	--	7.88	
A-23R	12/13/04	15.57	9.22	--	6.35	
A-23R	03/08/05	15.57	9.38	--	6.19	
A-23R	06/07/05	15.57	9.35	--	6.22	
A-23R	09/20/05	15.57	9.68	--	5.89	
A-23R	12/12/05	15.57	9.20	--	6.37	
A-23R	03/13/06	15.57	8.69	--	6.88	

A-23R	06/08/06	15.57	9.13	--	6.44	
A-23R	09/11/06	15.57	10.03	--	5.54	
A-23R	12/11/06	15.57	8.72	--	6.85	
A-23R	03/26/07	15.57	8.94	--	6.63	
A-23R	06/18/07	15.57	9.37	--	6.20	
A-23R	09/25/07	--	--	--	--	Not Measured-Inaccessible
A-23R	12/10/07	15.57	8.91	--	6.66	
A-23R	03/03/08	15.57	9.00	--	6.57	
A-23R	06/02/08	15.57	9.22	--	6.35	
A-23R	09/04/08	15.57	--	--	--	Not Measured-Inaccessible
A-23R	12/04/08	15.57	9.34	--	6.23	
A-23R	03/04/09	15.57	9.81	--	5.76	
A-23R	06/01/09	15.57	9.26	--	6.31	
A-23R	09/21/09	15.57	9.51	--	6.06	
A-23R	11/16/09	15.57	8.94	--	6.63	
A-23R	03/08/10	15.57	8.48	--	7.09	
A-23R	06/07/10	15.57	8.95	--	6.62	
A-23R	09/09/10	15.57	9.45	--	6.12	
A-23R	11/16/10	15.57	9.01	--	6.56	
A-23R	03/01/11	15.57	8.68	--	6.89	
A-23R	05/24/11	15.57	8.85	--	6.72	
A-23R	08/29/11	15.57	9.41	--	6.16	
A-23R	12/01/11	15.57	9.09	--	6.48	
A-23R	03/01/12	15.57	8.79	--	6.78	
A-23R	05/30/12	15.57	8.73	--	6.84	
A-23R	08/25/12	15.57	--	--	--	Inaccessible due to site access issues
A-23R	11/07/12	15.57	8.52	--	7.05	
A-23R	02/27/13	15.57	8.45	--	7.12	
A-23R	04/08/13	15.57	8.63	--	6.94	
A-23R	07/29/13	15.57	8.92	--	6.65	
A-23R	10/02/13	15.57	8.81	--	6.76	
A-23R	01/21/14	15.57	9.16	--	6.41	
A-23R	04/22/14	15.57	5.74	--	9.83	
A-24	10/06/00	--	--	--	--	Destroyed during construction activities
A-24	Destroyed during construction activities					
A-25	02/11/02	10.12	6.78	--	3.34	
A-25	05/20/02	10.12	8.56	--	1.56	
A-25	08/27/02	10.12	7.99	--	2.13	
A-25	11/04/02	10.12	8.18	--	1.94	
A-25	02/18/03	10.12	7.08	--	3.04	
A-25	06/09/03	10.12	8.71	--	1.41	
A-25	09/15/03	13.90	8.05	--	5.85	
A-25	11/18/03	13.90	7.50	Sheen	6.40	
A-25	02/24/04	13.90	7.00	--	6.90	
A-25	05/10/04	13.90	7.75	--	6.15	
A-25	08/24/04	13.90	7.82	--	6.08	
A-25	12/13/04	13.90	7.46	--	6.44	
A-25	03/08/05	13.90	7.70	--	6.20	
A-25	06/06/05	13.90	7.53	--	6.37	
A-25	09/19/05	13.90	8.07	0.01	5.84*	
A-25	10/12/05	13.90	7.95	--	5.95	
A-25	12/12/05	13.90	7.79	--	6.11	
A-25	03/13/06	13.90	6.98	--	6.92	
A-25	06/05/06	13.90	7.43	--	6.47	
A-25	09/11/06	13.90	8.10	--	5.80	
A-25	12/11/06	13.90	7.05	--	6.85	
A-25	12/10/07	13.90	7.23	--	6.67	
A-25	03/03/08	13.90	7.36	--	6.54	
A-25	03/04/09	13.90	7.37	--	6.53	
A-25	06/01/09	13.90	7.81	--	6.09	
A-25	09/21/09	13.90	8.00	--	5.90	
A-25	11/16/09	13.90	7.16	--	6.74	
A-25	03/08/10	13.90	6.83	--	7.07	
A-25	06/07/10	13.90	7.36	--	6.54	
A-25	09/09/10	13.90	7.97	--	5.93	
A-25	11/15/10	13.90	7.44	Sheen	6.46	
A-25	03/01/11	13.90	7.04	--	6.86	
A-25	05/23/11	13.90	7.18	--	6.72	
A-25	08/29/11	13.90	7.81	--	6.09	
A-25	12/01/11	13.90	7.52	--	6.38	
A-25	03/01/12	13.90	7.75	--	6.15	
A-25	05/30/12	13.90	7.30	--	6.60	
A-25	08/25/12	13.90	7.56	--	6.34	
A-25	11/07/12	13.90	7.11	--	6.79	
A-25	02/27/13	13.90	7.18	--	6.72	
A-25	04/08/13	13.90	7.08	--	6.82	

A-25	07/29/13	13.90	7.52	--	6.38	
A-25	10/02/13	13.90	7.23	--	6.67	
A-25	01/21/14	13.90	7.51	--	6.39	
A-25	04/22/14	13.90	7.03	--	6.87	
A-26	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-26 Destroyed during construction activities of utility trench						
A-26R	02/11/02	10.39	7.13	0.02	3.28*	
A-26R	05/20/02	10.39	9.79	--	0.60	
A-26R	08/27/02	10.39	8.23	0.02	2.18*	
A-26R	11/04/02	10.39	8.41	0.04	2.01*	
A-26R	02/18/03	10.39	7.29	--	3.10	
A-26R	06/09/03	10.39	7.92	--	2.47	
A-26R	09/15/03	14.19	8.31	--	5.88	
A-26R	11/18/03	14.19	7.64	Sheen	6.55	
A-26R	02/24/04	14.19	7.17	--	7.02	
A-26R	05/10/04	14.19	7.93	--	6.26	
A-26R	08/24/04	14.19	8.10	--	6.09	
A-26R	12/13/04	14.19	7.55	--	6.64	
A-26R	03/08/05	14.19	7.80	--	6.39	
A-26R	06/06/05	14.19	7.18	--	7.01	
A-26R	09/19/05	14.19	8.25	0.01	5.95*	
A-26R	10/12/05	14.19	8.20	--	5.99	
A-26R	12/12/05	14.19	7.98	--	6.21	
A-26R	03/13/06	14.19	7.21	--	6.98	
A-26R	06/05/06	14.19	7.66	--	6.53	
A-26R	09/11/06	14.19	8.25	--	5.94	
A-26R	12/11/06	14.19	7.22	--	6.97	
A-26R	12/10/07	14.19	7.48	--	6.71	
A-26R	03/03/08	14.19	7.58	--	6.61	
A-26R	03/04/09	14.19	7.56	--	6.63	
A-26R	06/01/09	14.19	--	--	--	Not Measured-Inaccessible
A-26R	09/21/09	14.19	8.21	--	5.98	
A-26R	11/16/09	14.19	7.48	--	6.71	
A-26R	03/08/10	14.19	7.04	--	7.15	
A-26R	06/07/10	14.19	7.57	--	6.62	
A-26R	09/09/10	14.19	8.17	--	6.02	
A-26R	11/15/10	14.19	7.69	--	6.50	
A-26R	03/01/11	14.19	7.28	--	6.91	
A-26R	05/23/11	14.19	7.40	--	6.79	
A-26R	08/29/11	14.19	7.99	--	6.20	
A-26R	12/01/11	14.19	7.81	--	6.38	
A-26R	03/01/12	14.19	7.47	--	6.72	
A-26R	05/30/12	14.19	7.55	--	6.64	
A-26R	08/25/12	14.19	7.73	--	6.46	
A-26R	11/07/12	14.19	7.37	--	6.82	
A-26R	02/27/13	14.19	7.42	--	6.77	
A-26R	04/08/13	14.19	7.34	--	6.85	
A-26R	07/29/13	14.19	7.69	--	6.50	
A-26R	10/02/13	14.19	7.41	--	6.78	
A-26R	01/21/14	14.19	7.69	--	6.50	
A-26R	04/22/14	14.19	7.23	--	6.96	
A-27	02/11/02	13.45	10.05	--	3.40	
A-27	05/20/02	13.45	12.84	--	0.61	
A-27	08/27/02	13.45	11.31	--	2.14	
A-27	11/04/02	13.45	11.46	--	1.99	
A-27	02/18/03	13.45	10.32	--	3.13	
A-27	06/09/03	13.45	10.97	--	2.48	
A-27	09/15/03	17.22	11.38	--	5.84	
A-27	11/18/03	17.22	10.75	--	6.47	
A-27	02/24/04	17.22	10.15	--	7.07	
A-27	05/10/04	17.22	8.00	--	9.22	
A-27	08/24/04	17.22	11.15	--	6.07	
A-27	12/13/04	17.22	7.80	--	9.42	
A-27	03/08/05	17.22	10.83	--	6.39	
A-27	06/06/05	17.22	10.80	--	6.42	
A-27	09/19/05	17.22	11.32	--	5.90	
A-27	12/12/05	17.22	11.01	--	6.21	
A-27	03/13/06	17.22	10.17	--	7.05	
A-27	06/05/06	17.22	10.69	--	6.53	
A-27	09/11/06	17.22	11.30	--	5.92	
A-27	12/11/06	17.22	10.16	--	7.06	
A-27	03/26/07	17.22	10.41	--	6.81	
A-27	06/18/07	17.22	11.00	--	6.22	
A-27	09/24/07	17.22	11.20	--	6.02	
A-27	12/10/07	17.22	10.41	--	6.81	
A-27	03/03/08	17.22	10.54	--	6.68	
A-27	06/02/08	17.22	11.06	--	6.16	

A-27	09/04/08	17.22	11.50	--	5.72	
A-27	12/04/08	17.22	11.05	--	6.17	
A-27	03/04/09	17.22	10.64	--	6.58	
A-27	06/01/09	17.22	10.87	--	6.35	
A-27	09/21/09	17.22	11.25	--	5.97	
A-27	11/16/09	17.22	10.50	--	6.72	
A-27	03/08/10	17.22	10.01	--	7.21	
A-27	06/07/10	17.22	10.54	--	6.68	
A-27	09/09/10	17.22	11.19	--	6.03	
A-27	11/15/10	17.22	10.61	--	6.61	
A-27	03/01/11	17.22	10.20	--	7.02	
A-27	05/23/11	17.22	10.30	--	6.92	
A-27	08/29/11	17.22	11.03	--	6.19	
A-27	12/01/11	17.22	10.72	--	6.50	
A-27	03/01/12	17.22	10.44	--	6.78	
A-27	05/30/12	17.22	10.47	--	6.75	
A-27	08/25/12	17.22	10.78	--	6.44	
A-27	11/07/12	17.22	10.33	--	6.89	
A-27	02/27/13	17.22	10.28	--	6.94	
A-27	04/08/13	17.22	10.24	--	6.98	
A-27	06/21/13	17.22	10.68	--	6.54	Baseline monitoring event
A-27	07/29/13	17.22	10.69	--	6.53	
A-27	08/26/13	17.22	10.71	--	6.51	Two-month monitoring event
A-27	10/02/13	17.22	10.40	--	6.82	
A-27	01/21/14	17.22	10.63	--	6.59	
A-27	04/22/14	17.22	10.11	--	7.11	
A-28	06/14/01	--	--	--	--	Destroyed during construction activities
A-28	Destroyed during construction activities					
A-28R	02/11/02	11.19	7.72	--	3.47	
A-28R	05/20/02	11.19	9.51	--	1.68	
A-28R	08/27/02	11.19	8.97	--	2.22	
A-28R	11/04/02	11.19	9.20	--	1.99	
A-28R	02/18/03	11.19	8.20	--	2.99	
A-28R	06/09/03	11.19	8.67	--	2.52	
A-28R	09/15/03	14.93	9.05	--	5.88	
A-28R	11/18/03	14.93	8.45	--	6.48	
A-28R	02/24/04	14.93	7.91	--	7.02	
A-28R	05/10/04	14.93	8.66	--	6.27	
A-28R	08/24/04	14.93	7.90	--	7.03	
A-28R	12/13/04	14.93	8.58	--	6.35	
A-28R	03/08/05	14.93	8.67	--	6.26	
A-28R	06/06/05	14.93	8.47	--	6.46	
A-28R	09/19/05	14.93	8.99	--	5.94	
A-28R	12/12/05	14.93	7.71	--	7.22	
A-28R	03/13/06	14.93	7.79	--	7.14	
A-28R	06/05/06	14.93	9.13	--	5.80	
A-28R	09/11/06	14.93	9.00	--	5.93	
A-28R	12/11/06	14.93	7.89	--	7.04	
A-28R	03/26/07	14.93	8.05	--	6.88	
A-28R	06/18/07	14.93	8.64	--	6.29	
A-28R	09/24/07	14.93	8.81	--	6.12	
A-28R	12/10/07	14.93	8.01	--	6.92	
A-28R	03/03/08	14.93	8.17	--	6.76	
A-28R	06/02/08	14.93	8.64	--	6.29	
A-28R	09/04/08	14.93	8.73	--	6.20	
A-28R	12/04/08	14.93	8.69	--	6.24	
A-28R	03/04/09	14.93	8.29	--	6.64	
A-28R	06/01/09	14.93	8.51	--	6.42	
A-28R	09/21/09	14.93	8.92	--	6.01	
A-28R	11/16/09	14.93	8.21	--	6.72	
A-28R	03/08/10	14.93	7.61	--	7.32	
A-28R	06/07/10	14.93	8.14	--	6.79	
A-28R	09/09/10	14.93	8.73	--	6.20	
A-28R	11/15/10	14.93	8.22	--	6.71	
A-28R	03/01/11	14.93	7.80	--	7.13	
A-28R	05/23/11	14.93	7.89	--	7.04	
A-28R	08/29/11	14.93	8.70	--	6.23	
A-28R	12/01/11	14.93	8.32	--	6.61	
A-28R	03/01/12	14.93	7.95	--	6.98	
A-28R	05/30/12	14.93	8.04	--	6.89	
A-28R	08/25/12	14.93	8.35	--	6.58	
A-28R	11/07/12	14.93	7.89	--	7.04	
A-28R	02/27/13	14.93	7.78	--	7.15	
A-28R	04/08/13	14.93	7.67	--	7.26	
A-28R	07/29/13	14.93	8.20	--	6.73	
A-28R	10/02/13	14.93	7.88	--	7.05	
A-28R	01/21/14	14.93	8.20	--	6.73	

A-28R	04/22/14	14.93	7.59	--	7.34	
A-29	03/27/01	--	--	--	--	Destroyed during construction of utility trench
Destroyed during construction activities of utility trench						
A-29R	02/11/02	10.12	6.78	--	3.34	
A-29R	05/20/02	10.12	8.53	--	1.59	
A-29R	08/27/02	10.12	7.92	--	2.20	
A-29R	11/04/02	10.12	8.09	--	2.03	
A-29R	02/18/03	10.12	7.05	--	3.07	
A-29R	02/19/03	10.12	7.05	--	3.07	
A-29R	06/09/03	10.12	7.61	--	2.51	
A-29R	09/15/03	13.85	8.00	--	5.85	
A-29R	11/18/03	13.85	7.50	--	6.35	
A-29R	02/24/04	13.85	6.97	--	6.88	
A-29R	05/10/04	13.85	7.66	--	6.19	
A-29R	08/24/04	13.85	7.43	--	6.42	
A-29R	12/13/04	13.85	7.46	--	6.39	
A-29R	03/08/05	13.85	7.65	--	6.20	
A-29R	06/06/05	13.85	7.51	--	6.34	
A-29R	09/19/05	13.85	8.02	--	5.83	
A-29R	12/12/05	13.85	7.75	--	6.10	
A-29R	03/13/06	13.85	--	--	--	Not Measured-Inaccessible
A-29R	06/05/06	13.85	7.44	--	6.41	
A-29R	09/11/06	13.85	8.00	--	5.85	
A-29R	12/11/06	13.85	7.07	--	6.78	
A-29R	03/26/07	13.85	7.25	--	6.60	
A-29R	06/18/07	13.85	7.58	--	6.27	
A-29R	09/24/07	13.85	8.03	--	5.82	
A-29R	12/10/07	13.85	7.21	--	6.64	
A-29R	06/02/08	13.85	8.46	--	5.39	
A-29R	09/04/08	13.85	7.82	--	6.03	
A-29R	12/04/08	13.85	7.78	--	6.07	
A-29R	05/23/11	13.85	7.22	--	6.63	
3	02/11/02	9.78	5.71	--	4.07	Casing Damaged
3	05/20/02	9.78	7.97	--	1.81	Casing Damaged
3	08/27/02	9.78	7.57	--	2.21	Casing Damaged
3	11/04/02	9.78	7.82	--	1.96	Casing Damaged
3	02/18/03	9.78	6.02	--	3.76	Casing Damaged
3	06/09/03	9.78	7.16	--	2.62	Casing Damaged
3	06/11/03	--	--	--	--	Abandoned
Abandoned						
4	02/11/02	7.97	3.86	--	4.11	
4	05/20/02	7.97	6.07	--	1.90	
4	08/27/02	7.97	5.17	--	2.80	
4	11/04/02	7.97	5.40	--	2.57	
4	02/18/03	7.97	3.78	--	4.19	
4	02/19/03	7.97	3.78	--	4.19	
4	06/09/03	7.97	4.75	--	3.22	
4	09/15/03	11.01	5.37	--	5.64	Casing Broken
4	11/18/03	11.01	4.33	--	6.68	Casing Broken
4	02/24/04	11.01	3.91	--	7.10	Casing Broken
4	05/10/04	11.01	4.75	--	6.26	Casing Broken
4	08/24/04	11.01	4.94	--	6.07	Casing Broken
4	12/13/04	11.01	4.17	--	6.84	Casing Broken
4	03/08/05	11.01	3.80	--	7.21	Casing Broken
4	06/06/05	11.01	4.63	--	6.38	Casing Broken
4	09/19/05	11.01	--	--	--	Not Measured-Casing Broken
4	12/12/05	11.01	4.76	--	6.25	Casing Broken
4	03/13/06	11.01	3.82	--	7.19	Casing Broken
4	06/05/06	11.01	--	--	--	Not Measured-Casing Broken
4	09/11/06	11.01	--	--	--	Not Measured-Casing Broken
4	12/11/06	11.01	--	--	--	Not Measured-Casing Broken
5	02/11/02	8.30	3.73	--	4.57	Casing Damaged
5	05/20/02	8.30	5.89	--	2.41	Casing Damaged
5	08/27/02	8.30	5.40	--	2.90	Casing Damaged
5	11/04/02	8.30	5.74	--	2.56	Casing Damaged
5	02/18/03	8.30	4.20	--	4.10	Casing Damaged
5	06/11/03	--	--	--	--	Abandoned
Abandoned						
6	02/11/02	9.15	4.50	--	4.65	
6	05/20/02	9.15	6.88	--	2.27	
6	08/27/02	9.15	6.65	--	2.50	
6	11/04/02	9.15	6.99	--	2.16	
6	02/18/03	9.15	5.14	--	4.01	
6	06/09/03	9.15	6.24	--	2.91	
6	09/15/03	12.76	6.95	--	5.81	
6	11/18/03	12.76	5.56	--	7.20	
6	02/24/04	12.76	5.31	--	7.45	

6	05/10/04	12.76	6.24	--	6.52	
6	08/24/04	12.76	6.41	--	6.35	
6	12/13/04	12.76	4.28	--	8.48	
6	03/08/05	12.76	6.28	--	6.48	
6	06/06/05	12.76	5.94	--	6.82	
6	09/19/05	12.76	6.87	--	5.89	
6	12/12/05	12.76	6.13	--	6.63	
6	03/13/06	12.76	5.13	--	7.63	
6	06/05/06	12.76	5.68	--	7.08	
6	09/11/06	12.76	6.78	--	5.98	
6	12/11/06	12.76	5.52	--	7.24	
7	01/13/97	9.09	3.90	--	5.19	
7	10/06/00	9.09	6.80	--	2.29	
7	12/18/00	9.09	6.02	--	3.07	
7	03/27/01	9.09	6.44	--	2.65	
7	06/14/01	9.09	6.49	--	2.60	
7	09/21/01	9.09	6.91	--	2.18	
7	02/11/02	9.09	5.23	--	3.86	
7	05/20/02	9.09	7.31	--	1.78	
7	08/27/02	9.09	6.85	--	2.24	
7	11/04/02	9.09	7.07	--	2.02	
7	02/18/03	9.09	7.74	--	1.35	
7	06/09/03	9.09	6.45	--	2.64	
7	09/15/03	12.72	7.04	--	5.68	
7	11/18/03	12.72	6.11	--	6.61	
7	02/24/04	12.72	5.96	--	6.76	
7	05/10/04	12.72	6.62	--	6.10	
7	08/24/04	12.72	6.56	--	6.16	
7	12/13/04	12.72	6.00	--	6.72	
7	03/08/05	12.72	5.66	--	7.06	
7	06/06/05	12.72	6.45	--	6.27	
7	09/19/05	12.72	7.04	--	5.68	
7	12/12/05	12.72	6.69	--	6.03	
7	03/13/06	12.72	5.07	--	7.65	
7	06/05/06	12.72	7.40	--	5.32	
7	09/11/06	12.72	6.98	--	5.74	
7	12/11/06	12.72	5.62	--	7.10	
8	02/11/02	9.42	5.20	--	4.22	
8	05/20/02	9.42	7.52	--	1.90	Casing Tilted
8	08/27/02	9.42	7.12	--	2.30	Casing Tilted
8	11/04/02	9.42	7.25	--	2.17	Casing Tilted
8	02/18/03	9.42	5.79	--	3.63	Casing Tilted
8	06/11/03	--	--	--	--	Abandoned
8				Abandoned		
9	02/11/02	9.36	4.26	--	5.10	
9	05/20/02	9.36	6.76	--	2.60	
9	08/27/02	9.36	6.38	--	2.98	
9	11/04/02	9.36	7.00	--	2.36	
9	02/18/03	9.36	4.94	--	4.42	
9	06/09/03	9.36	6.11	--	3.25	
9	09/15/03	12.89	6.96	--	5.93	
9	11/18/03	12.89	5.51	--	7.38	
9	02/24/04	12.89	5.19	--	7.70	
9	05/10/04	12.89	6.18	--	6.71	
9	08/24/04	12.89	3.46	--	9.43	
9	12/13/04	12.89	5.48	--	7.41	
9	03/08/05	12.89	6.36	--	6.53	
9	06/06/05	12.89	5.82	--	7.07	
9	09/19/05	12.89	6.87	--	6.02	
9	12/12/05	12.89	6.15	--	6.74	
9	03/13/06	12.89	5.02	--	7.87	
9	06/05/06	12.89	5.51	--	7.38	
9	09/11/06	12.89	6.80	--	6.09	
9	12/11/06	12.89	4.79	--	8.10	
10	02/11/02	9.57	4.39	--	5.18	
10	05/20/02	9.57	6.98	--	2.59	
10	08/27/02	9.57	6.95	--	2.62	
10	11/04/02	9.57	7.29	--	2.28	
10	02/18/03	9.57	5.05	--	4.52	
10	06/09/03	9.57	6.34	--	3.23	
10	09/15/03	13.20	7.21	--	5.99	
10	11/18/03	13.20	5.62	--	7.58	
10	02/24/04	13.20	5.21	--	7.99	
10	05/10/04	13.20	6.47	--	6.73	
10	08/24/04	13.20	6.61	--	6.59	
10	12/13/04	13.20	5.48	--	7.72	
10	03/08/05	13.20	6.41	--	6.79	
10	06/06/05	13.20	6.09	--	7.11	

10	09/19/05	13.20	7.17	--	6.03	
10	12/12/05	13.20	6.29	--	6.91	
10	03/13/06	13.20	5.15	--	8.05	
10	06/05/06	13.20	5.70	--	7.50	
10	09/11/06	13.20	7.06	--	6.14	
10	12/11/06	13.20	4.88	--	8.32	
11	02/11/02	8.57	3.01	--	5.56	
11	05/20/02	8.57	5.61	--	2.96	
11	08/27/02	8.57	5.76	--	2.81	
11	11/04/02	8.57	6.03	--	2.54	
11	02/18/03	8.57	3.57	--	5.00	
11	06/09/03	8.57	4.98	--	3.59	
11	09/15/03	12.08	6.00	--	6.08	
11	11/18/03	12.08	2.38	--	9.70	
11	02/24/04	12.08	3.70	--	8.38	
11	05/10/04	12.08	5.07	--	7.01	
11	08/24/04	12.08	5.02	--	7.06	
11	12/13/04	12.08	4.12	--	7.96	
11	03/08/05	12.08	4.99	--	7.09	
11	06/06/05	12.08	4.74	--	7.34	
11	09/19/05	12.08	5.93	--	6.15	
11	12/12/05	12.08	4.95	--	7.13	
11	03/13/06	12.08	3.64	--	8.44	
11	06/05/06	12.08	4.32	--	7.76	
11	09/11/06	12.08	5.82	--	6.26	
11	12/11/06	12.08	3.91	--	8.17	
11	06/21/13	12.08	4.57	--	7.51	Baseline monitoring event
11	07/29/13	12.08	4.99	--	7.09	
11	08/26/13	12.08	4.99	--	7.09	Two-month monitoring event
11	10/02/13	12.08	3.96	--	8.12	
11	01/21/14	12.08	4.60	--	7.48	
11	04/22/14	12.08	3.29	--	8.79	
12	02/11/02	9.06	3.57	0.04	5.52*	
12	05/20/02	9.06	6.14	0.04	2.95*	Casing Damaged
12	08/27/02	9.06	3.41	0.01	5.66*	Casing Damaged
12	11/04/02	9.06	3.80	0.01	5.27*	Casing Damaged
12	02/18/03	9.06	0.80	Sheen	8.26	Casing Damaged
12	06/09/03	9.06	2.99	Sheen	6.07	Casing Damaged
12	09/15/03	9.79	--	--	--	Not Measured-Not Located
12	11/18/03	9.79	--	--	--	Not Measured-surface water covering wellNot accessible - surface water covering well
12	02/24/04	9.79	1.20	0.03	8.61*	
12	05/10/04	9.79	2.80	--	6.99	
12	08/24/04	9.79	2.51	Sheen	7.28	
12	12/13/04	9.79	1.12	--	8.67	
12	03/08/05	9.79	2.87	--	6.92	
12	06/06/05	9.79	5.16	--	4.63	
12	09/19/05	9.79	3.49	0.01	6.31*	
12	12/12/05	9.79	2.40	--	7.39	
12	03/13/06	9.79	1.00	--	8.79	
12	06/05/06	9.79	1.27	--	8.52	
12	09/11/06	9.79	3.63	--	6.16	
12	12/11/06	9.79	1.31	--	8.48	
12	03/26/07	9.79	1.40	--	8.39	
12	06/18/07	9.79	2.74	--	7.05	
12	09/24/07	9.79	3.43	--	6.36	
12	12/10/07	9.79	1.88	Sheen	7.91	
12	03/03/08	9.79	2.04	Sheen	7.75	
12	06/02/08	9.79	2.98	--	6.81	
12	09/04/08	9.79	3.74	--	6.05	
12	12/04/08	9.79	2.79	Sheen	7.00	
12	03/04/09	9.79	2.25	Sheen	7.54	
12	06/01/09	9.79	2.31	Sheen	7.48	
12	09/21/09	9.79	3.30	Sheen	6.49	
12	11/16/09	9.79	1.62	Sheen	8.17	
12	03/08/10	9.79	1.34	Sheen	8.45	
12	06/07/10	9.79	1.62	Sheen	8.17	
12	09/09/10	9.79	3.28	Sheen	6.51	
12	11/15/10	9.79	1.92	--	7.87	
12	03/01/11	9.79	1.35	Sheen	8.44	
12	05/23/11	9.79	2.15	Sheen	7.64	
12	08/29/11	9.79	3.03	0.03	6.78*	
12	12/01/11	9.79	2.13	--	7.66	
12	03/01/12	9.79	1.65	Sheen	8.14	
12	05/30/12	9.79	1.63	Sheen	8.16	
12	08/25/12	9.79	2.89	--	6.90	
12	11/07/12	9.79	1.46	--	8.33	

12	02/27/13	9.79	1.43	--	8.36	
12	04/08/13	9.79	0.24	--	9.55	
12	06/21/13	9.79	2.84	--	6.95	Baseline monitoring event
12	07/29/13	9.79	3.95	--	5.84	
12	08/26/13	9.79	1.91	--	7.88	Two-month monitoring event
12	10/02/13	9.79	1.14	--	8.65	
12	01/21/14	9.79	2.11	--	7.68	
12	04/22/14	9.79	0.88	Sheen	8.91	
13	02/11/02	9.77	5.06	--	4.71	
13	05/20/02	9.77	7.30	--	2.47	
13	08/27/02	9.77	7.15	--	2.62	
13	11/04/02	--	--	--	--	Not Measured-Recently destroyed
13	06/11/03	--	--	--	--	Abandoned
13				Abandoned		
14	06/11/03	--	--	--	--	Abandoned
14				Abandoned		
15	02/11/02	8.69	3.45	--	5.24	Casing Damaged
15	05/20/02	8.69	6.12	--	2.57	Casing Broken
15	08/27/02	8.69	5.94	--	2.75	Casing Broken
15	11/04/02	8.69	6.25	--	2.44	Casing Broken
15	02/18/03	8.69	3.71	--	4.98	Casing Broken
15	06/11/03	--	--	--	--	Abandoned
15				Abandoned		
16	02/11/02	9.73	4.50	--	5.23	
16	05/20/02	9.73	7.12	--	2.61	
16	08/27/02	9.73	7.14	--	2.59	
16	11/04/02	9.73	7.46	--	2.27	
16	02/18/03	9.73	5.12	--	4.61	
16	06/09/03	9.73	6.51	--	3.22	
16	09/15/03	13.29	7.37	--	5.92	
16	11/18/03	13.29	5.60	--	7.69	
16	02/24/04	13.29	5.46	--	7.83	
16	05/10/04	13.29	6.42	--	6.87	
16	08/24/04	13.29	6.81	--	6.48	
16	12/13/04	13.29	5.94	--	7.35	
16	03/08/05	13.29	6.51	--	6.78	
16	06/06/05	13.29	6.24	--	7.05	
16	09/19/05	13.29	7.30	--	5.99	
16	12/12/05	13.29	6.46	--	6.83	
16	03/13/06	13.29	5.20	--	8.09	
16	06/05/06	13.29	5.76	--	7.53	
16	09/11/06	13.29	7.21	--	6.08	
16	12/11/06	13.29	4.88	--	8.41	
17	02/11/02	11.48	6.39	--	5.09	
17	05/20/02	11.48	8.61	--	2.87	
17	08/27/02	11.48	8.68	--	2.80	
17	11/04/02	11.48	9.06	--	2.42	
17	02/18/03	11.48	6.92	--	4.56	
17	06/09/03	11.48	7.95	--	3.53	
17	09/15/03	15.06	8.89	--	6.17	
17	11/18/03	15.06	8.51	--	6.55	
17	02/24/04	15.06	6.45	--	8.61	
17	05/10/04	15.06	7.90	--	7.16	
17	08/24/04	15.06	8.45	--	6.61	
17	12/13/04	15.06	7.83	--	7.23	
17	03/08/05	15.06	7.81	--	7.25	
17	06/06/05	15.06	7.73	--	7.33	
17	09/19/05	15.06	8.75	--	6.31	
17	12/12/05	15.06	8.03	--	7.03	
17	03/13/06	15.06	6.57	--	8.49	
17	06/05/06	15.06	6.22	--	8.84	
17	09/11/06	15.06	8.68	--	6.38	
17	12/11/06	15.06	6.53	--	8.53	
19	02/11/02	9.13	3.75	--	5.38	
19	05/20/02	9.13	6.10	--	3.03	
19	08/27/02	9.13	6.28	--	2.85	
19	11/04/02	9.13	6.66	--	2.47	
19	02/18/03	9.13	4.33	--	4.80	
19	06/09/03	9.13	5.41	--	3.72	
19	09/15/03	12.74	6.51	--	6.23	
19	11/18/03	12.74	3.67	--	9.07	
19	02/24/04	12.74	4.25	--	8.49	
19	05/10/04	12.74	5.48	--	7.26	
19	08/24/04	12.74	5.87	--	6.87	
19	12/13/04	12.74	5.15	--	7.59	
19	03/08/05	12.74	5.45	--	7.29	
19	06/06/05	12.74	5.24	--	7.50	
19	09/19/05	12.74	6.36	--	6.38	

19	12/12/05	12.74	5.60	--	7.14
19	03/13/06	12.74	4.02	--	8.72
19	06/05/06	12.74	4.89	--	7.85
19	09/11/06	12.74	6.31	--	6.43
19	12/11/06	12.74	3.78	--	8.96
20	02/11/02	8.88	3.15	--	5.73
20	05/20/02	8.88	5.67	--	3.21
20	08/27/02	8.88	5.91	--	2.97
20	11/04/02	8.88	6.32	--	2.56
20	02/18/03	8.88	3.77	--	5.11
20	06/09/03	8.88	5.04	--	3.84
20	09/15/03	12.49	6.16	--	6.33
20	11/18/03	12.49	5.10	--	7.39
20	02/24/04	12.49	3.81	--	8.68
20	05/10/04	12.49	5.12	--	7.37
20	08/24/04	12.49	5.45	--	7.04
20	12/13/04	12.49	4.64	--	7.85
20	03/08/05	12.49	5.11	--	7.38
20	06/06/05	12.49	4.90	--	7.59
20	09/19/05	12.49	6.08	--	6.41
20	12/12/05	12.49	5.32	--	7.17
20	03/13/06	12.49	3.64	--	8.85
20	06/05/06	12.49	4.44	--	8.05
20	09/11/06	12.49	5.98	--	6.51
20	12/11/06	12.49	3.47	--	9.02
21	02/11/02	9.42	3.58	--	5.84
21	05/20/02	9.42	6.18	--	3.24
21	08/27/02	9.42	6.43	--	2.99
21	11/04/02	9.42	6.81	--	2.61
21	02/18/03	9.42	4.18	--	5.24
21	06/09/03	9.42	5.56	--	3.86
21	09/15/03	13.04	6.68	--	6.36
21	11/18/03	13.04	5.03	--	8.01
21	02/24/04	13.04	4.30	--	8.74
21	05/10/04	13.04	6.56	--	6.48
21	08/24/04	13.04	6.04	--	7.00
21	12/13/04	13.04	5.02	--	8.02
21	03/08/05	13.04	5.62	--	7.42
21	06/06/05	13.04	5.43	--	7.61
21	09/19/05	13.04	6.63	--	6.41
21	12/12/05	13.04	5.70	--	7.34
21	03/13/06	13.04	4.19	--	8.85
21	06/05/06	13.04	4.96	--	8.08
21	09/11/06	13.04	6.50	--	6.54
21	12/11/06	13.04	3.99	--	9.05
22	02/11/02	9.57	3.72	--	5.85
22	05/20/02	9.57	6.21	--	3.36
22	08/27/02	9.57	6.55	--	3.02
22	11/04/02	9.57	6.89	--	2.68
22	02/18/03	9.57	4.27	--	5.30
22	06/09/03	9.57	5.60	--	3.97
22	09/15/03	13.19	6.75	--	6.44
22	11/18/03	13.19	5.07	--	8.12
22	02/24/04	13.19	4.39	--	8.80
22	05/10/04	13.19	5.75	--	7.44
22	08/24/04	13.19	6.23	--	6.96
22	12/13/04	13.19	5.04	--	8.15
22	03/08/05	13.19	5.77	--	7.42
22	06/06/05	13.19	5.55	--	7.64
22	09/19/05	13.19	6.75	--	6.44
22	12/12/05	13.19	5.80	--	7.39
22	03/13/06	13.19	4.35	--	8.84
22	06/05/06	13.19	5.04	--	8.15
22	09/11/06	13.19	6.66	--	6.53
22	12/11/06	13.19	4.11	--	9.08
23	02/11/02	8.94	3.51	--	5.43
23	05/20/02	8.94	5.93	--	3.01
23	08/27/02	8.94	5.93	--	3.01
23	11/04/02	8.94	6.29	--	2.65
23	02/18/03	8.94	4.04	--	4.90
23	06/09/03	8.94	5.26	--	3.68
23	09/15/03	12.55	6.19	--	6.36
23	11/18/03	12.55	6.11	--	6.44
23	02/24/04	12.55	4.20	--	8.35
23	05/10/04	12.55	5.35	--	7.20
23	08/24/04	12.55	5.78	--	6.77
23	12/13/04	12.55	4.73	--	7.82
23	03/08/05	12.55	5.37	--	7.18

23	06/06/05	12.55	5.16	--	7.39	
23	09/19/05	12.55	6.46	--	6.09	
23	12/12/05	12.55	5.40	--	7.15	
23	03/13/06	12.55	4.03	--	8.52	
23	06/05/06	12.55	4.79	--	7.76	
23	09/11/06	12.55	6.13	--	6.42	
23	12/11/06	12.55	4.01	--	8.54	
24	06/11/03	--	--	--	--	Abandoned
24				Abandoned		
25	02/11/02	9.48	3.76	--	5.72	
25	05/20/02	9.48	6.19	--	3.29	
25	08/27/02	9.48	6.33	--	3.15	
25	11/04/02	9.48	6.74	--	2.74	Casing Tilted
25	02/18/03	9.48	4.13	--	5.35	Casing Tilted
25	06/11/03	--	--	--	--	Abandoned
25				Abandoned		
26	02/11/02	9.43	3.70	--	5.73	
26	05/20/02	9.43	--	--	--	Not Measured-Dry
26	08/27/02	9.43	6.02	--	3.41	
26	11/04/02	9.43	5.97	--	3.46	
26	02/18/03	9.43	5.11	--	4.32	
26	06/09/03	9.43	6.02	--	3.41	
26	09/15/03	13.87	6.01	--	7.86	
26	11/18/03	13.87	4.32	--	9.55	
26	02/24/04	13.87	5.14	--	8.73	
26	05/10/04	13.87	6.05	--	7.82	
26	08/24/04	13.87	5.19	--	8.68	
26	12/13/04	13.87	5.99	--	7.88	
26	03/08/05	13.87	6.02	--	7.85	
26	06/06/05	13.87	6.02	--	7.85	
26	09/19/05	13.87	4.51	--	9.36	
26	12/12/05	13.87	6.05	--	7.82	
26	03/13/06	13.87	5.00	--	8.87	
26	06/05/06	13.87	5.78	--	8.09	
26	09/11/06	13.87	7.01	--	6.86	
26	12/11/06	13.87	4.81	--	9.06	
27	02/11/02	9.20	3.57	--	5.63	
27	05/20/02	9.20	6.00	--	3.20	
27	08/27/02	9.20	6.21	--	2.99	
27	11/04/02	9.20	6.63	--	2.57	
27	02/18/03	9.20	4.03	--	5.17	
27	06/09/03	9.01	5.22	--	3.79	
27	09/15/03	12.65	6.36	--	6.29	
27	11/18/03	12.65	5.84	--	6.81	
27	02/24/04	12.65	4.04	--	8.61	
27	05/10/04	12.65	5.31	--	7.34	
27	08/24/04	12.65	5.71	--	6.94	
27	12/13/04	12.65	4.91	--	7.74	
27	03/08/05	12.65	5.28	--	7.37	
27	06/06/05	12.65	5.13	--	7.52	
27	09/19/05	12.65	6.22	--	6.43	
27	12/12/05	12.65	5.40	--	7.25	
27	03/13/06	12.65	3.82	--	8.83	
27	06/05/06	12.65	4.66	--	7.99	
27	09/11/06	12.65	6.16	--	6.49	
27	12/11/06	12.65	3.60	--	9.05	
MW-1	02/11/02	9.37	4.60	--	4.77	
MW-1	05/20/02	9.37	6.75	--	2.62	
MW-1	08/27/02	9.37	6.51	--	2.86	
MW-1	11/04/02	9.37	6.90	--	2.47	
MW-1	02/18/03	9.37	5.10	--	4.27	
MW-1	06/09/03	9.37	5.94	--	3.43	
MW-1	09/15/03	13.21	6.72	--	6.49	
MW-1	11/18/03	13.21	5.91	--	7.30	
MW-1	02/24/04	13.21	5.05	--	8.16	
MW-1	05/10/04	13.21	6.06	--	7.15	
MW-1	08/24/04	13.21	6.45	--	6.76	
MW-1	12/13/04	13.21	5.63	--	7.58	
MW-1	03/08/05	13.21	6.09	--	7.12	
MW-1	06/06/05	13.21	6.93	--	6.28	
MW-1	09/19/05	13.21	6.74	--	6.47	
MW-1	12/12/05	13.21	6.16	--	7.05	
MW-1	03/13/06	13.21	4.96	--	8.25	
MW-1	06/05/06	13.21	5.72	--	7.49	
MW-1	09/11/06	13.21	6.72	--	6.49	
MW-1	12/11/06	13.21	5.20	--	8.01	
MW-1	03/26/07	13.21	5.24	--	7.97	
MW-1	06/18/07	13.21	5.98	--	7.23	

MW-1	09/25/07	13.21	6.72	--	6.49
MW-1	12/10/07	13.21	5.34	--	7.87
MW-1	03/03/08	13.21	5.70	--	7.51
MW-1	06/02/08	13.21	6.30	--	6.91
MW-1	09/04/08	13.21	6.48	--	6.73
MW-1	12/04/08	13.21	6.33	--	6.88
MW-1	03/04/09	13.21	--	--	Not Measured-Inaccessible
MW-1	06/01/09	13.21	6.00	--	7.21
MW-1	09/21/09	13.21	6.75	--	6.46
MW-1	11/16/09	13.21	5.62	--	7.59
MW-1	03/08/10	13.21	5.05	--	8.16
MW-1	06/07/10	13.21	5.48	--	7.73
MW-1	09/09/10	13.21	6.55	--	6.66
MW-1	11/15/10	13.21	5.71	--	7.50
MW-1	03/01/11	13.21	4.97	--	8.24
MW-1	05/23/11	13.21	5.04	--	8.17
MW-1	08/29/11	13.21	6.35	--	6.86
MW-1	12/01/11	13.21	5.80	--	7.41
MW-1	03/01/12	13.21	5.59	--	7.62
MW-1	05/30/12	13.21	5.55	--	7.66
MW-1	08/25/12	13.21	6.25	--	6.96
MW-1	11/07/12	13.21	5.58	--	7.63
MW-1	02/27/13	13.21	5.24	--	7.97
MW-1	04/08/13	13.21	5.12	--	8.09
MW-1	07/29/13	13.21	6.19	--	7.02
MW-1	10/02/13	13.21	5.83	--	7.38
MW-1	01/21/14	13.21	5.96	--	7.25
MW-1	04/22/14	13.21	5.05	--	8.16
MW-2	02/11/02	11.33	6.13	--	5.20
MW-2	05/20/02	11.33	8.40	--	2.93
MW-2	08/27/02	11.33	8.50	--	2.83
MW-2	11/04/02	11.33	8.85	--	2.48
MW-2	02/18/03	11.33	6.10	--	5.23
MW-2	06/09/03	11.33	7.68	--	3.65
MW-2	09/15/03	15.22	8.71	--	6.51
MW-2	11/18/03	15.22	7.60	--	7.62
MW-2	02/24/04	15.22	6.56	--	8.66
MW-2	05/10/04	15.22	7.78	--	7.44
MW-2	08/24/04	15.22	8.33	--	6.89
MW-2	12/13/04	15.22	7.69	--	7.53
MW-2	03/08/05	15.22	7.72	--	7.50
MW-2	06/06/05	15.22	7.61	--	7.61
MW-2	09/19/05	15.22	8.58	--	6.64
MW-2	12/12/05	15.22	7.86	--	7.36
MW-2	03/13/06	15.22	6.38	--	8.84
MW-2	06/05/06	15.22	7.39	--	7.83
MW-2	09/11/06	15.22	8.50	--	6.72
MW-2	12/11/06	15.22	6.37	--	8.85
MW-2	03/26/07	15.22	6.71	--	8.51
MW-2	06/18/07	15.22	7.68	--	7.54
MW-2	09/24/07	15.22	8.84	--	6.38
MW-2	12/10/07	15.22	6.85	--	8.37
MW-2	03/03/08	15.22	7.14	--	8.08
MW-2	06/02/08	15.22	7.91	--	7.31
MW-2	09/04/08	15.22	8.33	--	6.89
MW-2	12/04/08	15.22	8.01	--	7.21
MW-2	03/04/09	15.22	7.43	--	7.79
MW-2	06/01/09	15.22	7.54	--	7.68
MW-2	09/21/09	15.22	8.52	--	6.70
MW-2	11/16/09	15.22	7.28	--	7.94
MW-2	03/08/10	15.22	6.42	--	8.80
MW-2	06/07/10	15.22	7.00	--	8.22
MW-2	09/09/10	15.22	8.26	--	6.96
MW-2	11/15/10	15.22	7.21	--	8.01
MW-2	03/01/11	15.22	6.26	--	8.96
MW-2	05/23/11	15.22	6.39	--	8.83
MW-2	08/29/11	15.22	8.01	--	7.21
MW-2	12/01/11	15.22	7.56	--	7.66
MW-2	03/01/12	15.22	7.03	--	8.19
MW-2	05/30/12	15.22	6.97	--	8.25
MW-2	08/25/12	15.22	7.88	--	7.34
MW-2	11/07/12	15.22	7.34	--	7.88
MW-2	02/27/13	15.22	6.59	--	8.63
MW-2	04/08/13	15.22	6.36	--	8.86
MW-2	07/29/13	15.22	7.82	--	7.40
MW-2	10/02/13	15.22	7.44	--	7.78
MW-2	01/21/14	15.22	7.55	--	7.67
MW-2	04/22/14	15.22	6.21	--	9.01

MW-3	02/11/02	7.49	1.82	--	5.67
MW-3	05/20/02	7.49	4.27	--	3.22
MW-3	08/27/02	7.49	4.50	--	2.99
MW-3	11/04/02	7.49	4.92	--	2.57
MW-3	02/18/03	7.49	2.38	--	5.11
MW-3	06/09/03	7.49	3.67	--	3.82
MW-3	09/15/03	11.39	4.81	--	6.58
MW-3	11/18/03	11.39	2.97	--	8.42
MW-3	02/24/04	11.39	2.45	--	8.94
MW-3	05/10/04	11.39	3.64	--	7.75
MW-3	08/24/04	11.39	4.14	--	7.25
MW-3	12/13/04	11.39	3.22	--	8.17
MW-3	03/08/05	11.39	3.70	--	7.69
MW-3	06/06/05	11.39	3.51	--	7.88
MW-3	09/19/05	11.39	4.65	--	6.74
MW-3	12/12/05	11.39	3.81	--	7.58
MW-3	03/13/06	11.39	2.43	--	8.96
MW-3	06/05/06	11.39	3.05	--	8.34
MW-3	09/11/06	11.39	4.58	--	6.81
MW-3	12/11/06	11.39	2.00	--	9.39
MW-3	03/26/07	11.39	2.46	--	8.93
MW-3	06/18/07	11.39	3.81	--	7.58
MW-3	09/24/07	11.39	4.58	--	6.81
MW-3	12/10/07	11.39	2.53	--	8.86
MW-3	03/03/08	11.39	3.10	--	8.29
MW-3	06/02/08	11.39	3.88	--	7.51
MW-3	09/04/08	11.39	4.27	--	7.12
MW-3	12/04/08	11.39	3.99	--	7.40
MW-3	03/04/09	11.39	3.28	--	8.11
MW-3	06/01/09	11.39	3.48	--	7.91
MW-3	09/21/09	11.39	4.51	--	6.88
MW-3	11/16/09	11.39	2.97	--	8.42
MW-3	03/08/10	11.39	2.32	--	9.07
MW-3	06/07/10	11.39	2.86	--	8.53
MW-3	09/09/10	11.39	4.23	--	7.16
MW-3	11/15/10	11.39	2.99	--	8.40
MW-3	03/01/11	11.39	1.86	--	9.53
MW-3	05/23/11	11.39	2.03	--	9.36
MW-3	08/29/11	11.39	4.02	--	7.37
MW-3	12/01/11	11.39	3.27	--	8.12
MW-3	03/01/12	11.39	2.99	--	8.40
MW-3	05/30/12	11.39	2.93	--	8.46
MW-3	08/25/12	11.39	3.90	--	7.49
MW-3	11/07/12	11.39	3.10	--	8.29
MW-3	02/27/13	11.39	2.23	--	9.16
MW-3	04/08/13	11.39	2.04	--	9.35
MW-3	07/29/13	11.39	3.78	--	7.61
MW-3	10/02/13	11.39	3.06	--	8.33
MW-3	01/21/14	11.39	3.43	--	7.96
MW-3	04/22/14	11.39	2.06	--	9.33
MW-4	02/11/02	10.44	5.24	--	5.20
MW-4	05/20/02	10.44	7.60	--	2.84
MW-4	08/27/02	10.44	7.40	--	3.04
MW-4	11/04/02	10.44	7.90	0.15	2.66*
MW-4	02/18/03	10.44	5.79	--	4.65
MW-4	06/09/03	10.44	6.81	--	3.63
MW-4	09/15/03	14.69	7.70	0.01	7.00*
MW-4	11/18/03	14.69	6.71	Sheen	7.98
MW-4	02/24/04	14.69	5.82	Sheen	8.87
MW-4	05/10/04	14.69	6.93	Sheen	7.76
MW-4	08/24/04	14.69	7.24	--	7.45
MW-4	12/13/04	14.69	6.45	Sheen	8.24
MW-4	03/08/05	14.69	6.94	--	7.75
MW-4	06/06/05	14.69	6.71	--	7.98
MW-4	09/19/05	14.69	7.67	--	7.02
MW-4	12/12/05	14.69	6.97	--	7.72
MW-4	03/13/06	14.69	5.77	--	8.92
MW-4	06/05/06	14.69	6.42	--	8.27
MW-4	09/11/06	14.69	7.61	--	7.08
MW-4	12/11/06	14.69	5.81	--	8.88
MW-4	03/26/07	14.69	5.96	--	8.73
MW-4	06/18/07	14.69	6.99	--	7.70
MW-4	09/25/07	14.69	7.46	--	7.23
MW-4	12/10/07	14.69	5.93	--	8.76
MW-4	03/03/08	14.69	6.44	--	8.25
MW-4	06/02/08	14.69	7.37	--	7.32
MW-4	09/04/08	14.69	7.20	--	7.49
MW-4	12/04/08	14.69	7.77	--	6.92

MW-4	03/04/09	14.69	6.68	--	8.01
MW-4	06/01/09	14.69	6.78	--	7.91
MW-4	09/21/09	14.69	7.56	--	7.13
MW-4	11/16/09	14.69	6.34	--	8.35
MW-4	03/08/10	14.69	5.86	--	8.83
MW-4	06/07/10	14.69	6.27	--	8.42
MW-4	09/09/10	14.69	7.40	--	7.29
MW-4	11/15/10	14.69	6.39	--	8.30
MW-4	03/01/11	14.69	5.70	--	8.99
MW-4	05/23/11	14.69	5.74	--	8.95
MW-4	08/29/11	14.69	7.25	--	7.44
MW-4	12/01/11	14.69	6.52	--	8.17
MW-4	03/01/12	14.69	6.38	--	8.31
MW-4	05/30/12	14.69	6.33	--	8.36
MW-4	08/25/12	14.69	7.05	--	7.64
MW-4	11/07/12	14.69	6.31	--	8.38
MW-4	02/27/13	14.69	6.02	--	8.67
MW-4	04/08/13	14.69	5.74	--	8.95
MW-4	07/29/13	14.69	7.02	--	7.67
MW-4	10/02/13	14.69	6.53	--	8.16
MW-4	01/21/14	14.69	6.75	--	7.94
MW-4	04/22/14	14.69	5.84	--	8.85
MW-5	02/11/02	7.10	1.50	--	5.60
MW-5	05/20/02	7.10	4.06	--	3.04
MW-5	08/27/02	7.10	4.23	--	2.87
MW-5	11/04/02	7.10	4.63	--	2.47
MW-5	02/18/03	7.10	1.98	--	5.12
MW-5	06/09/03	7.10	3.47	--	3.63
MW-5	09/15/03	11.13	4.49	--	6.64
MW-5	11/18/03	11.13	2.81	--	8.32
MW-5	02/24/04	11.13	2.11	--	9.02
MW-5	05/10/04	11.13	3.50	--	7.63
MW-5	08/24/04	11.13	3.71	--	7.42
MW-5	12/13/04	11.13	2.75	--	8.38
MW-5	03/08/05	11.13	3.53	--	7.60
MW-5	06/06/05	11.13	3.22	--	7.91
MW-5	09/19/05	11.13	4.33	--	6.80
MW-5	12/12/05	11.13	3.43	--	7.70
MW-5	03/13/06	11.13	2.10	--	9.03
MW-5	06/05/06	11.13	2.59	--	8.54
MW-5	09/11/06	11.13	4.33	--	6.80
MW-5	12/11/06	11.13	1.70	--	9.43
MW-5	03/26/07	11.13	2.22	--	8.91
MW-5	06/18/07	11.13	--	--	--
					Not Measured-No Access due to construction
MW-5	09/24/07	11.13	4.28	--	6.85
MW-5	12/10/07	11.13	2.06	--	9.07
MW-5	03/03/08	11.13	2.81	--	8.32
MW-5	06/02/08	11.13	3.36	--	7.77
MW-5	09/04/08	11.13	3.91	--	7.22
MW-5	12/04/08	11.13	3.64	--	7.49
MW-5	03/04/09	11.13	2.98	--	8.15
MW-5	06/01/09	11.13	3.21	--	7.92
MW-5	09/21/09	11.13	4.23	--	6.90
MW-5	11/16/09	11.13	2.50	--	8.63
MW-5	03/08/10	11.13	2.11	--	9.02
MW-5	06/07/10	11.13	2.55	--	8.58
MW-5	09/09/10	11.13	3.93	--	7.20
MW-5	11/15/10	11.13	2.55	--	8.58
MW-5	03/01/11	11.13	1.63	--	9.50
MW-5	05/23/11	11.13	2.00	--	9.13
MW-5	08/29/11	11.13	3.82	--	7.31
MW-5	12/01/11	11.13	2.80	--	8.33
MW-5	03/01/12	11.13	2.66	--	8.47
MW-5	05/30/12	11.13	2.73	--	8.40
MW-5	08/25/12	11.13	3.54	--	7.59
MW-5	11/07/12	11.13	2.56	--	8.57
MW-5	02/27/13	11.13	2.20	--	8.93
MW-5	04/08/13	11.13	1.69	--	9.44
MW-5	07/29/13	11.13	3.41	--	7.72
MW-5	10/02/13	11.13	2.51	--	8.62
MW-5	01/21/14	11.13	3.11	--	8.02
MW-5	04/22/14	11.13	1.79	--	9.34
MW-6	02/11/02	11.15	6.35	--	4.80
MW-6	05/20/02	11.15	8.48	--	2.67
MW-6	08/27/02	11.15	8.45	--	2.70
MW-6	11/04/02	11.15	8.80	--	2.35
MW-6	02/18/03	11.15	6.85	--	4.30

MW-6	06/09/03	11.15	7.74	--	3.41
MW-6	09/15/03	15.17	8.65	--	6.52
MW-6	11/18/03	15.17	7.60	--	7.57
MW-6	02/24/04	15.17	6.61	--	8.56
MW-6	05/10/04	15.17	7.76	--	7.41
MW-6	08/24/04	15.17	8.28	--	6.89
MW-6	12/13/04	15.17	7.67	--	7.50
MW-6	03/08/05	15.17	7.70	--	7.47
MW-6	06/06/05	15.17	7.55	--	7.62
MW-6	09/19/05	15.17	8.48	--	6.69
MW-6	12/12/05	15.17	7.89	--	7.28
MW-6	03/13/06	15.17	6.46	--	8.71
MW-6	06/05/06	15.17	7.25	--	7.92
MW-6	09/11/06	15.17	8.43	--	6.74
MW-6	12/11/06	15.17	6.50	--	8.67
MW-6	03/26/07	15.17	6.61	--	8.56
MW-6	06/18/07	15.17	7.76	--	7.41
MW-6	09/24/07	15.17	8.43	--	6.74
MW-6	12/10/07	15.17	6.93	--	8.24
MW-6	03/03/08	15.17	7.09	--	8.08
MW-6	06/02/08	15.17	7.88	--	7.29
MW-6	09/04/08	15.17	8.19	--	6.98
MW-6	12/04/08	15.17	7.95	--	7.22
MW-6	03/04/09	15.17	7.41	--	7.76
MW-6	06/01/09	15.17	7.54	--	7.63
MW-6	09/21/09	15.17	8.42	--	6.75
MW-6	11/16/09	15.17	7.30	--	7.87
MW-6	03/08/10	15.17	6.45	--	8.72
MW-6	06/07/10	15.17	7.09	--	8.08
MW-6	09/09/10	15.17	8.10	--	7.07
MW-6	11/15/10	15.17	7.21	--	7.96
MW-6	03/01/11	15.17	6.24	--	8.93
MW-6	05/23/11	15.17	6.42	--	8.75
MW-6	08/29/11	15.17	7.92	--	7.25
MW-6	12/01/11	15.17	7.45	--	7.72
MW-6	03/01/12	15.17	6.97	--	8.20
MW-6	05/30/12	15.17	6.91	--	8.26
MW-6	08/25/12	15.17	7.09	--	8.08
MW-6	11/07/12	15.17	7.12	--	8.05
MW-6	02/27/13	15.17	6.59	--	8.58
MW-6	04/08/13	15.17	6.22	--	8.95
MW-6	07/29/13	15.17	7.34	--	7.83
MW-6	10/02/13	15.17	6.98	--	8.19
MW-6	01/21/14	15.17	7.21	--	7.96
MW-6	04/22/14	15.17	6.71	--	8.46
MW-7	02/11/02	6.78	1.49	--	5.29
MW-7	05/20/02	6.78	3.91	--	2.87
MW-7	08/27/02	6.78	4.03	--	2.75
MW-7	11/04/02	6.78	4.44	--	2.34
MW-7	02/18/03	6.78	1.82	Sheen	4.96
MW-7	06/09/03	6.78	3.29	--	3.49
MW-7	09/15/03	10.62	4.30	--	6.32
MW-7	11/18/03	10.62	2.83	--	7.79
MW-7	02/24/04	10.62	2.16	--	8.46
MW-7	05/10/04	10.62	3.32	--	7.30
MW-7	08/24/04	10.62	3.31	--	7.31
MW-7	12/13/04	10.62	2.27	--	8.35
MW-7	03/08/05	10.62	3.23	--	7.39
MW-7	06/06/05	10.62	3.03	--	7.59
MW-7	09/19/05	10.62	4.16	Sheen	6.46
MW-7	12/12/05	10.62	3.17	--	7.45
MW-7	03/13/06	10.62	1.88	--	8.74
MW-7	06/05/06	10.62	2.34	--	8.28
MW-7	09/11/06	10.62	4.10	--	6.52
MW-7	12/11/06	10.62	1.72	--	8.90
MW-7	03/26/07	10.62	2.00	--	8.62
MW-7	06/18/07	10.62	3.34	--	7.28
MW-7	09/24/07	10.62	4.00	--	6.62
MW-7	12/10/07	10.62	1.12	Sheen	9.50
MW-7	03/03/08	10.62	2.49	Sheen	8.13
MW-7	06/02/08	10.62	3.41	Sheen	7.21
MW-7	09/04/08	10.62	3.60	--	7.02
MW-7	12/04/08	10.62	3.36	--	7.26
MW-7	03/04/09	10.62	2.90	--	7.72
MW-7	06/01/09	10.62	3.08	Sheen	7.54
MW-7	09/21/09	10.62	1.91	--	8.71
MW-7	11/16/09	10.62	2.54	Sheen	8.08
MW-7	03/08/10	10.62	2.31	--	8.31

MW-7	06/07/10	10.62	2.67	--	7.95	
MW-7	09/09/10	10.62	3.79	--	6.83	
MW-7	11/15/10	10.62	2.58	--	8.04	
MW-7	03/01/11	10.62	2.51	--	8.11	
MW-7	05/23/11	10.62	2.24	--	8.38	
MW-7	08/29/11	10.62	3.87	--	6.75	
MW-7	12/01/11	10.62	2.67	--	7.95	
MW-7	03/01/12	10.62	2.80	--	7.82	
MW-7	05/30/12	10.62	2.82	--	7.80	
MW-7	08/25/12	10.62	3.35	--	7.27	
MW-7	11/07/12	10.62	2.23	--	8.39	
MW-7	02/27/13	10.62	2.33	--	8.29	
MW-7	04/08/13	10.62	1.88	--	8.74	
MW-7	06/21/13	10.62	3.10	--	7.52	Baseline monitoring event
MW-7	07/29/13	10.62	3.16	--	7.46	
MW-7	08/26/13	10.62	2.82	--	7.80	Two-month monitoring event
MW-7	10/02/13	10.62	2.08	--	8.54	
MW-7	01/21/14	10.62	2.78	--	7.84	
MW-7	04/22/14	10.62	1.45	--	9.17	
MW-8	02/11/02	6.42	1.38	--	5.04	
MW-8	05/20/02	6.42	3.87	0.01	2.56*	
MW-8	08/27/02	6.42	5.83	--	0.59	
MW-8	11/04/02	6.42	4.23	--	2.19	
MW-8	02/18/03	6.42	1.37	--	5.05	
MW-8	06/09/03	6.42	3.33	--	3.09	
MW-8	09/15/03	10.63	4.10	--	6.53	
MW-8	11/18/03	10.63	2.25	--	8.38	
MW-8	02/24/04	10.63	2.15	--	8.48	
MW-8	05/10/04	10.63	3.37	--	7.26	
MW-8	08/24/04	10.63	3.51	--	7.12	
MW-8	12/13/04	10.63	2.40	--	8.23	
MW-8	03/08/05	10.63	3.25	--	7.38	
MW-8	06/06/05	10.63	3.01	--	7.62	
MW-8	09/19/05	10.63	4.05	--	6.58	
MW-8	12/12/05	10.63	3.20	--	7.43	
MW-8	03/13/06	10.63	2.22	--	8.41	
MW-8	06/05/06	10.63	2.59	--	8.04	
MW-8	09/11/06	10.63	3.96	--	6.67	
MW-8	12/11/06	10.63	1.81	--	8.82	
MW-8	03/26/07	10.63	4.01	--	6.62	
MW-8	06/18/07	10.63	4.55	--	6.08	
MW-8	09/24/07	10.63	5.05	--	5.58	
MW-8	12/10/07	10.63	4.18	--	6.45	
MW-8	03/03/08	10.63	4.25	--	6.38	
MW-8	06/02/08	10.63	4.65	--	5.98	
MW-8	09/04/08	10.63	4.69	--	5.94	
MW-8	12/04/08	10.63	--	--	--	Not Measured-Inaccessible
MW-8	03/04/09	10.63	3.36	--	7.27	
MW-8	06/01/09	10.63	3.67	--	6.96	
MW-8	09/21/09	10.63	4.42	--	6.21	
MW-8	11/16/09	10.63	2.85	--	7.78	
MW-8	03/08/10	10.63	2.65	--	7.98	
MW-8	06/07/10	10.63	3.10	--	7.53	
MW-8	09/09/10	10.63	4.29	--	6.34	
MW-8	11/15/10	10.63	3.12	--	7.51	
MW-8	03/01/11	10.63	2.22	--	8.41	
MW-8	05/23/11	10.63	2.76	--	7.87	
MW-8	08/29/11	10.63	4.22	--	6.41	
MW-8	12/01/11	10.63	3.11	--	7.52	
MW-8	03/01/12	10.63	3.18	--	7.45	
MW-8	05/30/12	10.63	3.27	--	7.36	
MW-8	08/25/12	10.63	4.02	--	6.61	
MW-8	11/07/12	10.63	2.93	--	7.70	
MW-8	02/27/13	10.63	2.98	--	7.65	
MW-8	04/08/13	10.63	2.41	--	8.22	
MW-8	07/29/13	10.63	3.98	--	6.65	
MW-8	10/02/13	10.63	2.86	--	7.77	
MW-8	01/21/14	10.63	3.56	--	7.07	
MW-8	04/22/14	10.63	2.68	--	7.95	
MW-9	02/11/02	6.14	2.03	0.02	4.13*	
MW-9	05/20/02	6.14	4.16	0.01	1.99*	
MW-9	08/27/02	6.14	5.85	0.01	0.30*	
MW-9	11/04/02	6.14	4.07	0.01	2.08*	
MW-9	02/18/03	6.14	2.35	0.01	3.80*	
MW-9	06/09/03	6.14	3.53	--	2.61	
MW-9	09/15/03	9.75	3.99	Sheen	5.76	
MW-9	11/18/03	9.75	2.95	Sheen	6.80	
MW-9	02/24/04	9.75	2.41	Sheen	7.34	

MW-9	05/10/04	9.75	3.36	--	6.39	
MW-9	08/24/04	9.75	3.46	--	6.29	
MW-9	12/13/04	9.75	2.73	--	7.02	
MW-9	03/08/05	9.75	3.24	--	6.51	
MW-9	06/06/05	9.75	3.13	--	6.62	
MW-9	09/19/05	9.75	3.91	--	5.84	
MW-9	12/12/05	9.75	3.27	--	6.48	
MW-9	03/13/06	9.75	2.30	--	7.45	
MW-9	06/05/06	9.75	2.74	--	7.01	
MW-9	09/11/06	9.75	3.85	--	5.90	
MW-9	12/11/06	9.75	2.09	--	7.66	
MW-9	03/26/07	9.75	2.44	--	7.31	
MW-9	06/18/07	9.75	2.44	--	7.31	
MW-9	09/24/07	9.75	3.88	--	5.87	
MW-9	12/10/07	9.75	2.24	Sheen	7.51	
MW-9	03/03/08	9.75	2.82	Sheen	6.93	
MW-9	06/02/08	9.75	3.52	--	6.23	
MW-9	09/04/08	9.75	3.54	--	6.21	
MW-9	12/04/08	9.75	3.34	--	6.41	
MW-9	03/04/09	9.75	2.89	--	6.86	
MW-9	06/01/09	9.75	3.19	--	6.56	
MW-9	09/21/09	9.75	3.76	Sheen	5.99	
MW-9	11/16/09	9.75	2.63	--	7.12	
MW-9	03/08/10	9.75	2.31	Sheen	7.44	
MW-9	06/07/10	9.75	2.72	Sheen	7.03	
MW-9	09/09/10	9.75	3.69	Sheen	6.06	
MW-9	11/15/10	9.75	2.71	Sheen	7.04	
MW-9	03/01/11	9.75	2.39	Sheen	7.36	
MW-9	05/23/11	9.75	2.58	Sheen	7.17	
MW-9	08/29/11	9.75	3.57	--	6.18	
MW-9	12/01/11	9.75	2.90	--	6.85	
MW-9	03/01/12	9.75	2.96	--	6.79	
MW-9	05/30/12	9.75	2.66	--	7.09	
MW-9	08/25/12	9.75	3.28	--	6.47	
MW-9	11/07/12	9.75	2.49	--	7.26	
MW-9	02/27/13	9.75	2.71	--	7.04	
MW-9	04/08/13	9.75	2.02	--	7.73	
MW-9	06/21/13	9.75	3.01	--	6.74	Baseline monitoring event
MW-9	07/29/13	9.75	3.19	--	6.56	
MW-9	08/26/13	9.75	3.11	--	6.64	Two-month monitoring event
MW-9	10/02/13	9.75	2.40	--	7.35	
MW-9	01/21/14	9.75	2.85	--	6.90	
MW-9	04/22/14	9.75	2.07	--	7.68	
MW-10D	03/27/01	--	--	--	--	Not Measured-Damaged
MW-10D	09/24/07	9.75	3.88	--	5.87	
MW-10D			Destroyed during construction activities in 2000			
MW-11D	02/11/02	6.81	3.75	--	3.06	
MW-11D	05/20/02	6.81	5.27	0.02	1.56*	
MW-11D	08/27/02	6.81	4.70	0.01	2.12*	
MW-11D	11/04/02	6.81	4.93	--	1.88	
MW-11D	02/18/03	6.81	3.59	--	3.22	
MW-11D	06/09/03	6.81	4.55	--	2.26	
MW-11D	09/15/03	10.78	4.91	--	5.87	
MW-11D	11/18/03	10.78	4.28	--	6.50	
MW-11D	02/24/04	10.78	3.71	--	7.07	
MW-11D	05/10/04	10.78	4.35	--	6.43	
MW-11D	08/24/04	10.78	4.13	--	6.65	
MW-11D	12/13/04	10.78	4.26	--	6.52	
MW-11D	03/08/05	10.78	4.58	--	6.20	
MW-11D	06/06/05	10.78	4.43	--	6.35	
MW-11D	09/19/05	10.78	4.89	--	5.89	
MW-11D	12/12/05	10.78	4.64	--	6.14	
MW-11D	03/13/06	10.78	3.84	--	6.94	
MW-11D	06/05/06	10.78	4.31	--	6.47	
MW-11D	09/11/06	10.78	4.91	--	5.87	
MW-11D	12/11/06	10.78	3.63	--	7.15	
MW-12	02/11/02	--	--	--	--	Destroyed during construction activities
MW-12			Destroyed during construction activities			
MW-12R	02/11/02	11.15	6.12	--	5.03	
MW-12R	05/20/02	11.15	8.36	--	2.79	
MW-12R	08/27/02	11.15	8.19	--	2.96	
MW-12R	11/04/02	11.15	8.56	--	2.59	
MW-12R	02/18/03	11.15	7.85	--	3.30	
MW-12R	06/09/03	11.15	7.67	--	3.48	
MW-12R	09/15/03	15.47	8.45	--	7.02	
MW-12R	11/18/03	15.47	7.87	--	7.60	
MW-12R	02/24/04	15.47	6.98	--	8.49	

MW-12R	05/10/04	15.47	7.79	--	7.68
MW-12R	08/24/04	15.47	8.11	--	7.36
MW-12R	12/13/04	15.47	7.54	--	7.93
MW-12R	03/08/05	15.47	7.93	--	7.54
MW-12R	06/06/05	15.47	6.41	--	9.06
MW-12R	09/19/05	15.47	8.41	--	7.06
MW-12R	12/12/05	15.47	7.92	--	7.55
MW-12R	03/13/06	15.47	6.85	--	8.62
MW-12R	06/05/06	15.47	7.43	--	8.04
MW-12R	09/11/06	15.47	8.39	--	7.08
MW-12R	12/11/06	15.47	6.95	--	8.52
MW-12R	03/26/07	15.47	7.02	--	8.45
MW-12R	06/18/07	15.47	7.84	--	7.63
MW-12R	09/25/07	15.47	8.38	--	7.09
MW-12R	12/10/07	15.47	7.02	--	8.45
MW-12R	03/03/08	15.47	7.11	--	8.36
MW-12R	06/02/08	15.47	7.98	--	7.49
MW-12R	09/04/08	15.47	8.13	--	7.34
MW-12R	12/04/08	15.47	7.98	--	7.49
MW-12R	03/04/09	15.47	7.54	--	7.93
MW-12R	06/01/09	15.47	7.71	--	7.76
MW-12R	09/21/09	15.47	8.39	--	7.08
MW-12R	11/16/09	15.47	7.40	--	8.07
MW-12R	03/08/10	15.47	6.86	--	8.61
MW-12R	06/07/10	15.47	7.23	--	8.24
MW-12R	09/09/10	15.47	8.22	--	7.25
MW-12R	11/15/10	15.47	7.40	--	8.07
MW-12R	03/01/11	15.47	6.76	--	8.71
MW-12R	05/23/11	15.47	6.87	--	8.60
MW-12R	08/29/11	15.47	8.07	--	7.40
MW-12R	12/01/11	15.47	7.51	--	7.96
MW-12R	03/01/12	15.47	7.31	--	8.16
MW-12R	05/30/12	15.47	7.30	--	8.17
MW-12R	08/25/12	15.47	7.89	--	7.58
MW-12R	11/07/12	15.47	7.34	--	8.13
MW-12R	02/27/13	15.47	7.02	--	8.45
MW-12R	04/08/13	15.47	6.88	--	8.59
MW-12R	07/29/13	15.47	7.84	--	7.63
MW-12R	10/02/13	15.47	7.42	--	8.05
MW-12R	01/21/14	15.47	7.70	--	7.77
MW-12R	04/22/14	15.47	6.90	--	8.57
MW-13	02/11/02	--	--	--	--
Destroyed during construction activities					
Destroyed during construction activities					
MW-13R	02/11/02	10.99	5.95	--	5.04
MW-13R	05/20/02	10.99	8.08	--	2.91
MW-13R	08/27/02	10.99	7.93	--	3.06
MW-13R	11/04/02	10.99	8.30	--	2.69
MW-13R	02/18/03	10.99	6.55	--	4.44
MW-13R	06/09/03	10.99	7.37	--	3.62
MW-13R	09/15/03	15.15	8.19	--	6.96
MW-13R	11/18/03	15.15	7.56	--	7.59
MW-13R	02/24/04	15.15	6.50	--	8.65
MW-13R	05/10/04	15.15	7.45	--	7.70
MW-13R	08/24/04	15.15	8.13	--	7.02
MW-13R	12/13/04	15.15	7.10	--	8.05
MW-13R	03/08/05	15.15	7.62	--	7.53
MW-13R	06/06/05	15.15	7.37	--	7.78
MW-13R	09/19/05	15.15	8.22	--	6.93
MW-13R	12/12/05	15.15	7.61	--	7.54
MW-13R	03/13/06	15.15	6.50	--	8.65
MW-13R	06/05/06	15.15	7.03	--	8.12
MW-13R	09/11/06	15.15	8.13	--	7.02
MW-13R	12/11/06	15.15	6.60	--	8.55
MW-13R	03/26/07	15.15	6.60	--	8.55
MW-13R	06/18/07	15.15	7.53	--	7.62
MW-13R	09/25/07	15.15	8.10	--	7.05
MW-13R	12/10/07	15.15	6.74	--	8.41
MW-13R	03/03/08	15.15	7.45	--	7.70
MW-13R	06/02/08	15.15	7.70	--	7.45
MW-13R	09/04/08	15.15	7.86	--	7.29
MW-13R	12/04/08	15.15	7.72	--	7.43
MW-13R	03/04/09	15.15	7.30	--	7.85
MW-13R	06/01/09	15.15	7.43	--	7.72
MW-13R	09/21/09	15.15	8.12	--	7.03
MW-13R	11/16/09	15.15	7.07	--	8.08
MW-13R	03/08/10	15.15	6.57	--	8.58
MW-13R	06/07/10	15.15	6.95	--	8.20

MW-13R	09/09/10	15.15	7.94	--	7.21
MW-13R	11/15/10	15.15	7.12	--	8.03
MW-13R	03/01/11	15.15	6.42	--	8.73
MW-13R	05/23/11	15.15	6.52	--	8.63
MW-13R	08/29/11	15.15	7.79	--	7.36
MW-13R	12/01/11	15.15	7.21	--	7.94
MW-13R	03/01/12	15.15	6.99	--	8.16
MW-13R	05/25/12	--	--	--	Abandoned
MW-13R	Abandoned on 5/25/2012				
MW-14	02/11/02	7.55	1.65	--	5.90
MW-14	05/20/02	7.55	4.46	--	3.09
MW-14	08/27/02	7.55	4.58	--	2.97
MW-14	11/04/02	7.55	5.95	--	1.60
MW-14	02/18/03	7.55	2.60	--	4.95
MW-14	06/09/03	7.55	3.86	--	3.69
MW-14	09/15/03	11.44	5.11	--	6.33
MW-14	11/18/03	11.44	3.30	--	8.14
MW-14	02/24/04	11.44	2.55	--	8.89
MW-14	05/10/04	11.44	3.92	--	7.52
MW-14	08/24/04	11.44	4.23	--	7.21
MW-14	12/13/04	11.44	3.28	--	8.16
MW-14	03/08/05	11.44	3.71	--	7.73
MW-14	06/06/05	11.44	3.37	--	8.07
MW-14	09/19/05	11.44	4.79	--	6.65
MW-14	12/12/05	11.44	3.72	--	7.72
MW-14	03/13/06	11.44	2.40	--	9.04
MW-14	06/05/06	11.44	3.07	--	8.37
MW-14	09/11/06	11.44	4.90	--	6.54
MW-14	12/11/06	11.44	2.02	--	9.42
MW-14	03/26/07	11.44	2.61	--	8.83
MW-14	06/18/07	11.44	3.91	--	7.53
MW-14	09/24/07	11.44	4.64	--	6.80
MW-14	12/10/07	11.44	2.44	--	9.00
MW-14	03/03/08	11.44	3.19	--	8.25
MW-14	06/02/08	11.44	3.82	--	7.62
MW-14	09/04/08	11.44	4.22	--	7.22
MW-14	12/04/08	11.44	4.04	--	7.40
MW-14	03/04/09	11.44	3.37	--	8.07
MW-14	06/01/09	11.44	3.61	--	7.83
MW-14	09/21/09	11.44	4.59	--	6.85
MW-14	11/16/09	11.44	2.82	--	8.62
MW-14	03/08/10	11.44	2.48	--	8.96
MW-14	06/07/10	11.44	2.99	--	8.45
MW-14	09/09/10	11.44	4.33	--	7.11
MW-14	11/15/10	11.44	3.01	--	8.43
MW-14	03/01/11	11.44	2.03	--	9.41
MW-14	05/23/11	11.44	2.36	--	9.08
MW-14	08/29/11	11.44	4.20	--	7.24
MW-14	12/01/11	11.44	3.17	--	8.27
MW-14	03/01/12	11.44	3.05	--	8.39
MW-14	05/30/12	11.44	3.09	--	8.35
MW-14	08/25/12	11.44	4.04	--	7.40
MW-14	11/07/12	11.44	2.92	--	8.52
MW-14	02/27/13	11.44	2.66	--	8.78
MW-14	04/08/13	11.44	2.18	--	9.26
MW-14	07/29/13	11.44	3.90	--	7.54
MW-14	10/02/13	11.44	3.08	--	8.36
MW-14	01/21/14	11.44	5.59	--	5.85
MW-14	04/22/14	11.44	2.19	--	9.25
MW-15	02/11/02	9.03	3.94	--	5.09
MW-15	05/20/02	9.03	6.18	--	2.85
MW-15	08/27/02	9.03	6.10	--	2.93
MW-15	11/04/02	9.03	6.48	--	2.55
MW-15	02/18/03	9.03	4.50	--	4.53
MW-15	06/09/03	9.03	5.49	--	3.54
MW-15	09/15/03	12.86	6.35	--	6.51
MW-15	11/18/03	12.86	5.49	--	7.37
MW-15	02/24/04	12.86	4.67	--	8.19
MW-15	05/10/04	12.86	5.56	Sheen	7.30
MW-15	08/24/04	12.86	6.10	--	6.76
MW-15	12/13/04	12.86	4.34	--	8.52
MW-15	03/08/05	12.86	5.58	--	7.28
MW-15	06/06/05	12.86	5.42	--	7.44
MW-15	09/19/05	12.86	6.34	--	6.52
MW-15	12/12/05	12.86	5.63	--	7.23
MW-15	03/13/06	12.86	4.33	--	8.53
MW-15	06/05/06	12.86	5.15	--	7.71
MW-15	09/11/06	12.86	6.30	--	6.56

MW-15	12/11/06	12.86	4.43	--	8.43
MW-15	03/26/07	12.86	4.60	--	8.26
MW-15	06/18/07	12.86	5.61	--	7.25
MW-15	06/02/08	12.86	5.80	--	7.06
MW-15	09/04/08	12.86	6.02	--	6.84
MW-15	12/04/08	12.86	5.82	--	7.04
MW-16	02/11/02	11.19	6.19	--	5.00
MW-16	05/20/02	11.19	8.23	--	2.96
MW-16	08/27/02	11.19	8.32	--	2.87
MW-16	11/04/02	11.19	8.72	--	2.47
MW-16	02/18/03	11.19	7.65	--	3.54
MW-16	06/09/03	11.19	7.46	--	3.73
MW-16	09/15/03	15.23	8.55	--	6.68
MW-16	11/18/03	15.23	7.69	--	7.54
MW-16	02/24/04	15.23	6.40	--	8.83
MW-16	05/10/04	15.23	7.60	--	7.63
MW-16	08/24/04	15.23	8.21	--	7.02
MW-16	12/13/04	15.23	7.80	--	7.43
MW-16	03/08/05	15.23	7.55	--	7.68
MW-16	06/06/05	15.23	7.38	--	7.85
MW-16	09/19/05	15.23	8.40	--	6.83
MW-16	12/12/05	15.23	7.69	--	7.54
MW-16	03/13/06	15.23	6.16	--	9.07
MW-16	06/05/06	15.23	7.22	--	8.01
MW-16	09/11/06	15.23	8.32	--	6.91
MW-16	12/11/06	15.23	6.40	--	8.83
MW-16	03/26/07	15.23	6.53	--	8.70
MW-16	06/18/07	15.23	7.60	--	7.63
MW-16	09/24/07	15.23	8.36	--	6.87
MW-16	12/10/07	15.23	6.85	--	8.38
MW-16	03/03/08	15.23	6.95	--	8.28
MW-16	06/02/08	15.23	7.62	--	7.61
MW-16	09/04/08	15.23	8.07	--	7.16
MW-16	12/04/08	15.23	7.82	--	7.41
MW-16	03/04/09	15.23	7.47	--	7.76
MW-16	06/01/09	15.23	7.37	--	7.86
MW-16	09/21/09	15.23	8.33	--	6.90
MW-16	11/16/09	15.23	7.30	--	7.93
MW-16	03/08/10	15.23	6.34	--	8.89
MW-16	06/07/10	15.23	6.87	--	8.36
MW-16	09/09/10	15.23	8.04	--	7.19
MW-16	11/15/10	15.23	7.14	--	8.09
MW-16	03/01/11	15.23	6.12	--	9.11
MW-16	05/23/11	15.23	6.22	--	9.01
MW-16	08/29/11	15.23	7.97	--	7.26
MW-16	12/01/11	15.23	7.45	--	7.78
MW-16	03/01/12	15.23	6.81	--	8.42
MW-16	05/30/12	15.23	6.71	--	8.52
MW-16	08/25/12	15.23	7.57	--	7.66
MW-16	11/07/12	15.23	7.20	--	8.03
MW-16	02/27/13	15.23	6.18	--	9.05
MW-16	04/08/13	15.23	6.28	--	8.95
MW-16	07/29/13	15.23	7.31	--	7.92
MW-16	10/02/13	15.23	7.21	--	8.02
MW-16	01/21/14	15.23	7.19	--	8.04
MW-16	04/22/14	15.23	6.12	--	9.11
MW-17	02/11/02	11.43	6.13	--	5.30
MW-17	05/20/02	11.43	8.38	--	3.05
MW-17	08/27/02	11.43	8.50	--	2.93
MW-17	11/04/02	11.43	8.91	--	2.52
MW-17	02/18/03	11.43	6.70	--	4.73
MW-17	06/09/03	11.43	7.71	--	3.72
MW-17	09/15/03	15.38	8.71	--	6.67
MW-17	11/18/03	15.38	11.83	--	3.55
MW-17	02/24/04	15.38	7.20	--	8.18
MW-17	05/10/04	15.38	7.77	--	7.61
MW-17	08/24/04	15.38	8.36	--	7.02
MW-17	12/13/04	15.38	7.85	--	7.53
MW-17	03/08/05	15.38	7.65	--	7.73
MW-17	06/06/05	15.38	7.55	--	7.83
MW-17	09/19/05	15.38	8.56	--	6.82
MW-17	12/12/05	15.38	7.85	--	7.53
MW-17	03/13/06	15.38	6.30	--	9.08
MW-17	06/05/06	15.38	7.44	--	7.94
MW-17	09/11/06	15.38	8.52	--	6.86
MW-17	12/11/06	15.38	6.49	--	8.89
MW-17	05/23/11	15.38	6.30	--	9.08
MW-17	08/29/11	15.38	6.30	--	9.08

MW-18	02/11/02	11.29	5.97	--	5.32	
MW-18	05/20/02	11.29	8.20	--	3.09	
MW-18	08/27/02	11.29	7.34	--	3.95	
MW-18	11/04/02	11.29	8.73	--	2.56	
MW-18	02/18/03	11.29	6.45	--	4.84	
MW-18	06/09/03	11.29	7.59	--	3.70	
MW-18	09/15/03	15.49	8.65	--	6.84	
MW-18	11/18/03	15.49	7.68	--	7.81	
MW-18	02/24/04	15.49	6.38	--	9.11	
MW-18	05/10/04	15.49	7.65	--	7.84	
MW-18	08/24/04	15.49	8.17	--	7.32	
MW-18	12/13/04	15.49	7.61	--	7.88	
MW-18	03/08/05	15.49	7.47	--	8.02	
MW-18	06/06/05	15.49	7.41	--	8.08	
MW-18	09/19/05	15.49	8.43	--	7.06	
MW-18	12/12/05	15.49	7.70	--	7.79	
MW-18	03/13/06	15.49	6.23	--	9.26	
MW-18	06/05/06	15.49	7.31	--	8.18	
MW-18	09/11/06	15.49	8.34	--	7.15	
MW-18	12/11/06	15.49	6.34	--	9.15	
MW-18	03/26/07	15.49	6.59	--	8.90	
MW-18	06/18/07	15.49	7.66	--	7.83	
MW-18	09/24/07	15.49	8.40	--	7.09	
MW-18	12/10/07	15.49	6.68	--	8.81	
MW-18	03/03/08	15.49	6.98	--	8.51	
MW-18	06/02/08	15.49	7.70	--	7.79	
MW-18	09/04/08	15.49	8.11	--	7.38	
MW-18	12/04/08	15.49	7.84	--	7.65	
MW-18	03/04/09	15.49	7.34	--	8.15	
MW-18	06/01/09	15.49	7.36	--	8.13	
MW-18	09/21/09	15.49	8.40	--	7.09	
MW-18	11/16/09	15.49	7.18	--	8.31	
MW-18	03/08/10	15.49	6.23	--	9.26	
MW-18	06/07/10	15.49	6.89	--	8.60	
MW-18	09/09/10	15.49	8.11	--	7.38	
MW-18	11/15/10	15.49	7.12	--	8.37	
MW-18	03/01/11	15.49	6.11	--	9.38	
MW-18	05/23/11	15.49	6.25	--	9.24	
MW-18	08/29/11	15.49	7.87	--	7.62	
MW-18	12/01/11	15.49	7.38	--	8.11	
MW-18	03/01/12	15.49	6.88	--	8.61	
MW-18	05/30/12	15.49	6.75	--	8.74	
MW-18	08/25/12	15.49	--	--	--	Inaccessible due to truck parked on top
MW-18	11/07/12	15.49	7.21	--	8.28	
MW-18	02/27/13	15.49	6.43	--	9.06	
MW-18	04/08/13	15.49	6.39	--	9.10	
MW-18	07/29/13	15.49	7.63	--	7.86	
MW-18	10/02/13	15.49	7.39	--	8.10	
MW-18	01/21/14	15.49	7.35	--	8.14	
MW-18	04/22/14	15.49	0.20	--	15.29	
MW-19	02/11/02	7.16	1.63	--	5.53	
MW-19	05/20/02	7.16	4.08	Sheen	3.08	
MW-19	08/27/02	7.16	4.25	--	2.91	
MW-19	11/04/02	7.16	4.65	--	2.51	
MW-19	02/18/03	7.16	2.14	--	5.02	
MW-19	06/09/03	7.16	3.45	--	3.71	
MW-19	09/15/03	11.39	4.50	--	6.89	
MW-19	11/18/03	11.39	2.51	--	8.88	
MW-19	02/24/04	11.39	2.36	--	9.03	
MW-19	05/10/04	11.39	3.41	--	7.98	
MW-19	08/24/04	11.39	8.13	--	3.26	
MW-19	12/13/04	11.39	2.98	--	8.41	
MW-19	03/08/05	11.39	3.40	--	7.99	
MW-19	06/06/05	11.39	3.24	--	8.15	
MW-19	09/19/05	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	12/12/05	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	03/13/06	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	06/05/06	11.39	2.91	--	8.48	
MW-19	09/11/06	11.39	4.72	--	6.67	
MW-19	12/11/06	11.39	2.00	--	9.39	
MW-19	03/26/07	11.39	2.22	--	9.17	
MW-19	06/18/07	11.39	3.56	--	7.83	
MW-19	09/24/07	11.39	4.31	--	7.08	
MW-19	12/10/07	11.39	2.38	--	9.01	

MW-19	03/03/08	11.39	2.98	--	8.41	
MW-19	06/02/08	11.39	3.67	--	7.72	
MW-19	09/04/08	11.39	3.98	--	7.41	
MW-19	12/04/08	11.39	3.68	--	7.71	
MW-19	03/04/09	11.39	3.03	--	8.36	
MW-19	06/01/09	11.39	3.23	--	8.16	
MW-19	09/21/09	11.39	4.23	--	7.16	
MW-19	11/16/09	11.39	2.85	--	8.54	
MW-19	03/08/10	11.39	2.25	--	9.14	
MW-19	06/07/10	11.39	2.67	--	8.72	
MW-19	09/09/10	11.39	3.97	--	7.42	
MW-19	11/15/10	11.39	2.75	--	8.64	
MW-19	03/01/11	11.39	1.82	--	9.57	
MW-19	05/23/11	11.39	2.02	--	9.37	
MW-19	08/29/11	11.39	3.77	--	7.62	
MW-19	12/01/11	11.39	3.03	--	8.36	
MW-19	03/01/12	11.39	2.82	--	8.57	
MW-19	05/30/12	11.39	2.79	--	8.60	
MW-19	08/25/12	11.39	3.62	--	7.77	
MW-19	11/07/12	11.39	2.77	--	8.62	
MW-19	02/27/13	11.39	2.18	--	9.21	
MW-19	04/08/13	11.39	1.82	--	9.57	
MW-19	06/21/13	11.39	3.05	--	8.34	Baseline monitoring event
MW-19	07/29/13	11.39	3.56	--	7.83	
MW-19	08/26/13	11.39	3.45	--	7.94	Two-month monitoring event
MW-19	10/02/13	11.39	2.72	--	8.67	
MW-19	01/21/14	11.39	3.12	--	8.27	
MW-19	04/22/14	11.39	1.81	--	9.58	
MW-20	02/11/02	7.37	1.73	--	5.64	
MW-20	05/20/02	7.37	4.25	--	3.12	
MW-20	08/27/02	7.37	4.31	--	3.06	
MW-20	11/04/02	7.37	4.04	--	3.33	
MW-20	02/18/03	7.37	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	06/09/03	7.37	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	09/15/03	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	11/18/03	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	02/24/04	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	05/10/04	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	08/24/04	11.72	4.04	--	7.68	
MW-20	12/13/04	11.72	2.29	--	9.43	
MW-20	03/08/05	11.72	3.64	--	8.08	
MW-20	06/06/05	11.72	3.43	--	8.29	
MW-20	09/19/05	11.72	4.55	--	7.17	
MW-20	12/12/05	11.72	3.67	--	8.05	
MW-20	03/13/06	11.72	2.21	--	9.51	
MW-20	06/05/06	11.72	3.00	--	8.72	
MW-20	09/11/06	11.72	4.49	--	7.23	
MW-20	12/11/06	11.72	2.36	--	9.36	
MW-20	03/26/07	11.72	2.49	--	9.23	
MW-20	06/18/07	11.72	4.44	--	7.28	
MW-20	09/24/07	11.72	4.61	--	7.11	
MW-20	12/10/07	11.72	2.56	--	9.16	
MW-20	03/03/08	11.72	2.97	--	8.75	
MW-20	06/02/08	11.72	3.90	--	7.82	
MW-20	09/04/08	11.72	4.14	--	7.58	
MW-20	12/04/08	11.72	3.89	--	7.83	
MW-20	03/04/09	11.72	4.99	--	6.73	
MW-20	06/01/09	11.72	3.46	--	8.26	
MW-20	09/21/09	11.72	4.42	--	7.30	
MW-20	11/16/09	11.72	2.91	--	8.81	
MW-20	03/08/10	11.72	2.40	--	9.32	
MW-20	06/07/10	11.72	2.76	--	8.96	
MW-20	09/09/10	11.72	4.22	--	7.50	
MW-20	11/15/10	11.72	3.03	--	8.69	
MW-20	03/01/11	11.72	2.18	--	9.54	
MW-20	05/23/11	11.72	2.11	--	9.61	
MW-20	08/29/11	11.72	4.05	--	7.67	
MW-20	12/01/11	11.72	3.08	--	8.64	
MW-20	03/01/12	11.72	3.09	--	8.63	
MW-20	05/30/12	11.72	2.89	--	8.83	
MW-20	08/25/12	11.72	3.88	--	7.84	
MW-20	11/07/12	11.72	2.98	--	8.74	

MW-20	02/27/13	11.72	2.60	--	9.12	
MW-20	04/08/13	11.72	2.23	--	9.49	
MW-20	07/29/13	11.72	4.93	--	6.79	
MW-20	10/02/13	11.72	4.64	--	7.08	
MW-20	01/21/14	11.72	3.44	--	8.28	
MW-20	04/22/14	11.72	2.33	--	9.39	
MW-21	02/11/02	10.53	3.80	0.46	7.10*	
MW-21	05/20/02	10.53	5.98	0.43	4.89*	
MW-21	08/27/02	10.53	3.95	0.43	6.92*	
MW-21	11/04/02	10.53	4.95	0.01	5.59*	Product recovery pump in well
MW-21	02/18/03	10.53	3.59	0.01	6.95*	Product recovery pump in well
MW-21	06/09/03	10.53	3.53	Sheen	7.00	Product recovery pump in well
MW-21	09/15/03	9.41	3.98	0.01	5.44*	Product recovery pump in well
MW-21	11/18/03	9.41	3.08	Sheen	6.33	Product recovery pump in well
MW-21	02/24/04	9.41	2.47	Sheen	6.94	Product recovery pump in well
MW-21	05/10/04	9.41	3.65	Sheen	5.76	Product recovery pump in well
MW-21	08/24/04	9.41	3.81	Sheen	5.60	Product recovery pump in well
MW-21	12/13/04	9.41	3.24	Sheen	6.17	
MW-21	03/08/05	9.41	3.72	--	5.69	
MW-21	06/06/05	9.41	3.58	Sheen	5.83	
MW-21	09/19/05	9.41	4.19	--	5.22	
MW-21	12/12/05	9.41	4.04	--	5.37	
MW-21	03/13/06	9.41	2.48	--	6.93	
MW-21	06/05/06	9.41	3.27	--	6.14	
MW-21	09/11/06	9.41	3.90	0.08	5.57*	
MW-21	12/11/06	9.41	2.34	0.04	7.10*	
MW-21	03/26/07	9.41	2.87	--	6.54	
MW-21	06/18/07	9.41	3.75	--	5.66	
MW-21	09/24/07	9.41	3.81	Sheen	5.60	
MW-21	12/10/07	9.41	2.14	--	7.27	
MW-21	03/03/08	9.41	3.18	--	6.23	
MW-21	06/02/08	9.41	3.63	Sheen	5.78	
MW-21	09/04/08	9.41	3.60	--	5.81	
MW-21	12/04/08	9.41	3.48	Sheen	5.93	
MW-21	03/04/09	9.41	2.84	Sheen	6.57	
MW-21	06/01/09	9.41	3.34	--	6.07	
MW-21	09/21/09	9.41	3.74	Sheen	5.67	
MW-21	11/16/09	9.41	2.59	--	6.82	
MW-21	03/08/10	9.41	2.23	--	7.18	
MW-21	06/07/10	9.41	--	--	--	Not Measured
MW-21	09/09/10	9.41	3.66	--	5.75	
MW-21	11/15/10	9.41	2.79	--	6.62	
MW-21	03/01/11	9.41	2.21	--	7.20	
MW-21	05/23/11	9.41	2.47	--	6.94	
MW-21	08/29/11	9.41	3.53	--	5.88	
MW-21	12/01/11	9.41	2.77	Sheen	6.64	
MW-21	03/01/12	9.41	2.27	Sheen	7.14	
MW-21	05/30/12	9.41	2.86	--	6.55	
MW-21	08/25/12	9.41	3.20	--	6.21	
MW-21	11/07/12	9.41	2.53	--	6.88	
MW-21	02/27/13	9.41	2.61	--	6.80	
MW-21	04/08/13	9.41	1.99	--	7.42	
MW-21	07/29/13	9.41	3.31	--	6.10	
MW-21	10/02/13	9.41	2.49	--	6.92	
MW-21	01/21/14	9.41	3.02	--	6.39	
MW-21	04/22/14	9.41	2.37	--	7.04	
MW-22	02/11/02	12.39	7.18	--	5.21	
MW-22	05/20/02	12.39	9.44	--	2.95	
MW-22	08/27/02	12.39	9.55	--	2.84	
MW-22	11/04/02	12.39	9.91	--	2.48	
MW-22	02/18/03	12.39	7.75	--	4.64	
MW-22	06/09/03	12.39	8.71	--	3.68	
MW-22	09/15/03	16.32	9.75	--	6.57	
MW-22	11/18/03	16.32	8.55	--	7.77	
MW-22	02/24/04	16.32	7.56	--	8.76	
MW-22	05/10/04	16.32	8.76	--	7.56	
MW-22	08/24/04	16.32	9.25	--	7.07	
MW-22	12/13/04	16.32	8.70	--	7.62	
MW-22	03/08/05	16.32	8.72	--	7.60	
MW-22	06/06/05	16.32	8.58	--	7.74	
MW-22	09/19/05	16.32	9.61	--	6.71	
MW-22	12/12/05	16.32	8.90	--	7.42	
MW-22	03/13/06	16.32	4.37	--	11.95	
MW-22	06/05/06	16.32	8.31	--	8.01	
MW-22	09/11/06	16.32	9.54	--	6.78	
MW-22	12/11/06	16.32	7.44	--	8.88	
MW-22	03/26/07	16.32	7.68	--	8.64	
MW-22	06/18/07	16.32	8.78	--	7.54	

MW-22	09/24/07	16.32	9.55	--	6.77
MW-22	12/10/07	16.32	7.84	--	8.48
MW-22	03/03/08	16.32	8.12	--	8.20
MW-22	06/02/08	16.32	8.85	--	7.47
MW-22	09/04/08	16.32	9.22	--	7.10
MW-22	12/04/08	16.32	9.00	--	7.32
MW-22	03/04/09	16.32	8.43	--	7.89
MW-22	06/01/09	16.32	8.56	--	7.76
MW-22	09/21/09	16.32	9.51	--	6.81
MW-22	11/16/09	16.32	8.31	--	8.01
MW-22	03/08/10	16.32	7.40	--	8.92
MW-22	06/07/10	16.32	8.00	--	8.32
MW-22	09/09/10	16.32	9.22	--	7.10
MW-22	11/15/10	16.32	8.20	--	8.12
MW-22	03/01/11	16.32	7.18	--	9.14
MW-22	05/23/11	16.32	7.35	--	8.97
MW-22	08/29/11	16.32	9.01	--	7.31
MW-22	12/01/11	16.32	8.48	--	7.84
MW-22	03/01/12	16.32	7.98	--	8.34
MW-22	05/30/12	16.32	7.92	--	8.40
MW-22	08/25/12	16.32	8.79	--	7.53
MW-22	11/07/12	16.32	8.24	--	8.08
MW-22	02/27/13	16.32	7.42	--	8.90
MW-22	04/08/13	16.32	7.28	--	9.04
MW-22	07/29/13	16.32	8.59	--	7.73
MW-22	10/02/13	16.32	8.29	--	8.03
MW-22	01/21/14	16.32	8.39	--	7.93
MW-22	04/22/14	16.32	7.22	--	9.10
MW-23	11/18/03	14.15	7.66	Sheen	6.49
MW-23	02/24/04	14.15	7.18	Sheen	6.97
MW-23	05/10/04	14.15	7.89	<0.01	6.26*
MW-23	08/24/04	14.15	8.89	--	5.26
MW-23	12/13/04	14.15	7.49	Sheen	6.66
MW-23	03/08/05	14.15	7.57	Sheen	6.58
MW-23	06/06/05	14.15	7.72	Sheen	6.43
MW-23	09/19/05	14.15	8.17	0.17	6.12*
MW-23	10/12/05	14.15	8.10	Sheen	6.05
MW-23	12/12/05	14.15	7.93	--	6.22
MW-23	03/13/06	14.15	7.17	--	6.98
MW-23	06/05/06	14.15	7.62	--	6.53
MW-23	09/11/06	14.15	8.22	0.02	5.95*
MW-23	12/11/06	14.15	7.17	--	6.98
MW-23	03/26/07	14.15	7.41	--	6.74
MW-23	06/18/07	14.15	7.90	--	6.25
MW-23	09/25/07	14.15	8.14	Sheen	6.01
MW-23	12/10/07	14.15	7.38	Sheen	6.77
MW-23	03/03/08	14.15	7.49	Sheen	6.66
MW-23	06/02/08	14.15	8.71	Sheen	5.44
MW-23	09/04/08	14.15	8.04	--	6.11
MW-23	12/04/08	14.15	8.05	--	6.10
MW-23	03/04/09	14.15	7.48	--	6.67
MW-23	06/01/09	14.15	7.98	--	6.17
MW-23	09/21/09	14.15	8.13	--	6.02
MW-23	11/16/09	14.15	7.50	Sheen	6.65
MW-23	03/08/10	14.15	7.01	--	7.14
MW-23	06/07/10	14.15	7.49	Sheen	6.66
MW-23	09/09/10	14.15	8.02	Sheen	6.13
MW-23	11/15/10	14.15	7.60	--	6.55
MW-23	03/01/11	14.15	7.26	Sheen	6.89
MW-23	05/23/11	14.15	7.38	Sheen	6.77
MW-23	08/29/11	14.15	7.91	Sheen	6.24
MW-23	12/01/11	14.15	7.58	--	6.57
MW-23	03/01/12	14.15	7.35	--	6.80
MW-23	05/30/12	14.15	7.29	--	6.86
MW-23	08/25/12	14.15	7.41	--	6.74
MW-23	11/07/12	14.15	7.19	--	6.96
MW-23	02/27/13	14.15	7.23	--	6.92
MW-23	04/08/13	14.15	7.15	--	7.00
MW-23	07/29/13	14.15	7.47	--	6.68
MW-23	10/02/13	14.15	7.34	--	6.81
MW-23	01/21/14	14.15	7.72	--	6.43
MW-23	04/22/14	14.15	7.25	--	6.90
MW-24	11/18/03	14.34	7.65	Sheen	6.69
MW-24	02/24/04	14.34	7.07	Sheen	7.27
MW-24	05/10/04	14.34	7.73	0.02	6.63*
MW-24	08/24/04	14.34	7.90	0.10	6.52*
MW-24	12/13/04	14.34	7.47	Sheen	6.87
MW-24	03/08/05	14.34	7.57	Sheen	6.77

MW-24	06/06/05	14.34	7.24	0.02	7.12*	
MW-24	09/19/05	14.34	8.39	0.29	6.18*	
MW-24	10/12/05	14.34	8.45	0.47	6.27*	
MW-24	12/12/05	14.34	8.01	0.11	6.42*	
MW-24	03/13/06	14.34	7.19	--	7.15	
MW-24	06/05/06	14.34	7.59	--	6.75	
MW-24	09/11/06	14.34	8.31	0.20	6.19*	
MW-24	12/11/06	14.34	7.37	--	6.97	
MW-24	03/26/07	14.34	7.42	--	6.92	
MW-24	06/18/07	14.34	7.89	--	6.45	
MW-24	09/25/07	14.34	8.00	Sheen	6.34	
MW-24	12/10/07	14.34	7.42	--	6.92	
MW-24	03/03/08	14.34	7.51	Sheen	6.83	
MW-24	06/02/08	14.34	8.92	--	5.42	
MW-24	09/04/08	14.34	7.99	--	6.35	
MW-24	12/04/08	14.34	7.96	--	6.38	
MW-24	03/04/09	14.34	7.51	--	6.83	
MW-24	06/01/09	14.34	7.87	Sheen	6.47	
MW-24	09/21/09	14.34	8.09	--	6.25	
MW-24	11/16/09	14.34	7.46	Sheen	6.88	
MW-24	03/08/10	14.34	7.03	--	7.31	
MW-24	06/07/10	14.34	7.51	Sheen	6.83	
MW-24	09/09/10	14.34	8.01	Sheen	6.33	
MW-24	11/15/10	14.34	7.61	Sheen	6.73	
MW-24	03/01/11	14.34	7.26	Sheen	7.08	
MW-24	05/23/11	14.34	7.37	--	6.97	
MW-24	08/29/11	14.34	7.92	Sheen	6.42	
MW-24	12/01/11	14.34	7.73	--	6.61	
MW-24	03/01/12	14.34	7.39	--	6.95	
MW-24	05/30/12	14.34	7.41	--	6.93	
MW-24	08/25/12	14.34	7.59	--	6.75	
MW-24	11/07/12	14.34	7.26	--	7.08	
MW-24	02/27/13	14.34	7.34	--	7.00	
MW-24	04/08/13	14.34	7.27	--	7.07	
MW-24	07/29/13	14.34	7.58	--	6.76	
MW-24	10/02/13	14.34	7.34	--	7.00	
MW-24	01/21/14	14.34	7.66	--	6.68	
MW-24	04/22/14	14.34	7.20	--	7.14	
MW-25	11/18/03	13.05	7.50	Sheen	5.55	
MW-25	02/24/04	13.05	6.48	Sheen	6.57	
MW-25	05/10/04	13.05	7.61	--	5.44	
MW-25	08/24/04	13.05	7.11	--	5.94	
MW-25	12/13/04	13.05	7.49	--	5.56	
MW-25	03/08/05	13.05	7.61	--	5.44	
MW-25	06/06/05	13.05	7.47	--	5.58	
MW-25	09/19/05	13.05	7.93	--	5.12	
MW-25	12/12/05	13.05	7.71	--	5.34	
MW-25	03/13/06	13.05	7.02	--	6.03	
MW-25	06/05/06	13.05	7.38	--	5.67	
MW-25	09/11/06	13.05	7.88	--	5.17	
MW-25	12/11/06	13.05	7.03	--	6.02	
MW-25	06/18/07	13.05	6.77	--	6.28	
MW-25	03/03/08	13.05	7.28	--	5.77	
MW-25	06/02/08	13.05	7.71	--	5.34	
MW-25	09/04/08	13.05	7.33	--	5.72	
MW-25	12/04/08	13.05	--	--	--	Not Measured
MW-25	06/01/09	13.05	7.60	--	5.45	
MW-25	06/07/10	13.05	7.31	--	5.74	
MW-25	05/23/11	13.05	7.13	--	5.92	
MW-25	04/22/14	13.05	7.09	--	5.96	
E-1	02/11/02	9.04	3.65	--	5.39	
E-1	05/20/02	9.04	4.59	--	4.45	
E-1	08/27/02	9.04	--	--	--	Not Measured-Dry
E-1	11/04/02	--	--	--	--	Not Measured-Dry/Damaged
E-1	06/11/03	--	--	--	--	Not Measured-Damaged
E-1	05/30/12	13.05	7.12	--	5.93	
E-1				Abandoned		
SF-01	12/18/00	--	--	--	--	Abandoned
SF-01				Abandoned		
SF-01R	02/11/02	10.68	7.11	--	3.57	
SF-01R	05/20/02	10.68	9.07	Sheen	1.61	
SF-01R	08/27/02	10.68	8.44	0.01	2.25*	
SF-01R	11/04/02	10.68	9.63	--	1.05	
SF-01R	02/18/03	10.68	7.72	--	2.96	
SF-01R	06/09/03	10.68	8.30	--	2.38	
SF-01R	09/15/03	14.74	8.60	--	6.14	
SF-01R	11/18/03	14.74	7.45	--	7.29	
SF-01R	02/24/04	14.74	7.76	--	6.98	

SF-01R	05/10/04	14.74	8.11	--	6.63	
SF-01R	08/24/04	14.74	8.49	--	6.25	
SF-01R	12/13/04	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	03/08/05	14.74	8.16	--	6.58	
SF-01R	06/06/05	14.74	8.16	--	6.58	
SF-01R	09/19/05	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	12/12/05	14.74	8.39	--	6.35	
SF-01R	03/13/06	14.74	7.70	--	7.04	
SF-01R	06/05/06	14.74	8.09	--	6.65	
SF-01R	09/11/06	14.74	8.60	--	6.14	
SF-01R	12/11/06	14.74	7.73	--	7.01	
SH-02	02/11/02	--	--	--	--	Destroyed during construction activities

SH-02	Destroyed during construction activities					
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SH-02R	02/11/02	9.35	5.45	--	3.90	
SH-02R	05/20/02	9.35	6.49	--	2.86	
SH-02R	08/27/02	9.35	6.27	--	3.08	
SH-02R	11/04/02	9.35	6.62	--	2.73	
SH-02R	02/18/03	9.35	4.85	--	4.50	
SH-02R	06/09/03	9.35	4.75	--	4.60	
SH-02R	09/15/03	13.40	6.50	--	6.90	
SH-02R	11/18/03	13.40	6.03	--	7.37	
SH-02R	02/24/04	13.40	4.62	--	8.78	
SH-02R	05/10/04	13.40	5.88	--	7.52	
SH-02R	08/24/04	13.40	6.21	--	7.19	
SH-02R	12/13/04	13.40	5.14	--	8.26	
SH-02R	03/08/05	13.40	5.90	--	7.50	
SH-02R	06/06/05	13.40	5.72	--	7.68	
SH-02R	09/19/05	13.40	6.56	--	6.84	
SH-02R	12/12/05	13.40	5.94	--	7.46	
SH-02R	03/13/06	13.40	4.80	--	8.60	
SH-02R	06/05/06	13.40	5.41	--	7.99	
SH-02R	09/11/06	13.40	6.54	--	6.86	
SH-02R	12/11/06	13.40	4.82	--	8.58	
SH-02R	03/26/07	13.40	4.98	--	8.42	
SH-02R	06/18/07	13.40	5.94	--	7.46	
SH-02R	09/25/07	13.40	6.54	--	6.86	
SH-02R	12/10/07	13.40	5.13	--	8.27	
SH-02R	03/03/08	13.40	5.45	--	7.95	
SH-02R	06/02/08	13.40	6.10	--	7.30	
SH-02R	09/04/08	13.40	6.19	--	7.21	
SH-02R	12/04/08	13.40	6.08	--	7.32	
SH-02R	03/04/09	13.40	5.63	--	7.77	
SH-02R	06/01/09	13.40	5.79	--	7.61	
SH-02R	09/21/09	13.40	6.49	--	6.91	
SH-02R	11/16/09	13.40	5.37	--	8.03	
SH-02R	03/08/10	13.40	4.88	--	8.52	
SH-02R	06/07/10	13.40	5.25	--	8.15	
SH-02R	09/09/10	13.40	6.31	--	7.09	
SH-02R	11/15/10	13.40	5.42	--	7.98	
SH-02R	03/01/11	13.40	4.71	--	8.69	
SH-02R	05/23/11	13.40	4.78	--	8.62	
SH-02R	08/29/11	13.40	6.16	--	7.24	
SH-02R	12/01/11	13.40	5.50	--	7.90	
SH-02R	03/01/12	13.40	5.34	--	8.06	
SH-02R	05/30/12	13.40	5.32	--	8.08	
SH-02R	08/25/12	13.40	6.03	--	7.37	
SH-02R	11/07/12	13.40	5.37	--	8.03	
SH-02R	02/27/13	13.40	5.01	--	8.39	
SH-02R	04/08/13	13.40	4.77	--	8.63	
SH-02R	07/29/13	13.40	5.98	--	7.42	
SH-02R	10/02/13	13.40	5.54	--	7.86	
SH-02R	01/21/14	13.40	5.76	--	7.64	
SH-02R	04/22/14	13.40	4.76	--	8.64	
SH-04	02/11/02	13.45	9.40	--	4.05	
SH-04	05/20/02	13.45	11.24	--	2.21	
SH-04	08/27/02	13.45	11.02	--	2.43	
SH-04	11/04/02	13.45	9.31	--	4.14	
SH-04	02/18/03	13.45	9.80	--	3.65	
SH-04	06/09/03	13.45	10.41	--	3.04	
SH-04	09/15/03	17.41	11.15	--	6.26	
SH-04	11/18/03	17.41	7.61	--	9.80	
SH-04	02/24/04	17.41	6.62	--	10.79	
SH-04	05/10/04	17.41	11.40	--	6.01	
SH-04	08/24/04	17.41	10.88	--	6.53	
SH-04	12/13/04	17.41	10.68	--	6.73	

SH-04	03/08/05	17.41	10.33	--	7.08	
SH-04	06/06/05	17.41	10.23	--	7.18	
SH-04	09/19/05	17.41	11.03	--	6.38	
SH-04	12/12/05	17.41	10.53	--	6.88	
SH-04	03/13/06	17.41	9.22	--	8.19	
SH-04	06/05/06	17.41	10.05	--	7.36	
SH-04	09/11/06	17.41	11.00	--	6.41	
SH-04	12/11/06	17.41	9.50	--	7.91	
SH-05R	05/20/02	9.83	8.07	Sheen	1.76	
SH-05R	08/27/02	9.83	7.59	--	2.24	
SH-05R	11/04/02	9.83	7.81	Sheen	2.02	
SH-05R	02/18/03	9.83	7.60	--	2.23	
SH-05R	06/09/03	9.83	7.29	--	2.54	
SH-05R	09/15/03	13.89	7.42	Sheen	6.47	
SH-05R	11/18/03	13.89	7.21	Sheen	6.68	
SH-05R	02/24/04	13.89	6.41	--	7.48	
SH-05R	05/10/04	13.89	7.33	--	6.56	
SH-05R	08/24/04	13.89	7.60	--	6.29	
SH-05R	12/13/04	13.89	7.15	--	6.74	
SH-05R	03/08/05	13.89	7.62	--	6.27	
SH-05R	06/06/05	13.89	7.24	--	6.65	
SH-05R	09/19/05	13.89	7.80	--	6.09	
SH-05R	12/12/05	13.89	7.49	--	6.40	
SH-05R	03/13/06	13.89	6.38	--	7.51	
SH-05R	06/05/06	13.89	7.10	--	6.79	
SH-05R	09/11/06	13.89	7.72	--	6.17	
SH-05R	12/11/06	13.89	6.61	--	7.28	
SH-05R	03/26/07	13.89	6.82	--	7.07	
SH-05R	06/18/07	13.89	7.43	--	6.46	
SH-05R	09/25/07	13.89	7.72	--	6.17	
SH-05R	12/10/07	13.89	6.70	--	7.19	
SH-05R	03/03/08	13.89	7.01	--	6.88	
SH-05R	06/02/08	13.89	7.50	--	6.39	
SH-05R	09/04/08	13.89	7.55	--	6.34	
SH-05R	12/04/08	13.89	7.12	--	6.77	
SH-05R	03/04/09	13.89	7.02	--	6.87	
SH-05R	06/01/09	13.89	7.36	--	6.53	
SH-05R	09/21/09	13.89	7.73	--	6.16	
SH-05R	11/16/09	13.89	6.93	--	6.96	
SH-05R	03/08/10	13.89	6.47	--	7.42	
SH-05R	06/07/10	13.89	6.63	--	7.26	
SH-05R	09/09/10	13.89	7.58	--	6.31	
SH-05R	11/16/10	13.89	7.04	--	6.85	
SH-05R	03/01/11	13.89	6.58	--	7.31	
SH-05R	05/23/11	13.89	6.74	--	7.15	
SH-05R	08/29/11	13.89	7.52	--	6.37	
SH-05R	12/01/11	13.89	7.09	--	6.80	
SH-05R	03/01/12	13.89	6.89	--	7.00	
SH-05R	05/30/12	13.89	6.91	--	6.98	
SH-05R	08/25/12	13.89	7.29	--	6.60	
SH-05R	11/07/12	13.89	6.79	--	7.10	
SH-05R	02/27/13	13.89	6.77	--	7.12	
SH-05R	04/08/13	13.89	5.59	--	8.30	
SH-05R	07/29/13	13.89	7.25	--	6.64	
SH-05R	10/02/13	13.89	6.82	--	7.07	
SH-05R	01/21/14	13.89	7.18	--	6.71	
SH-05R	04/22/14	13.89	6.59	--	7.30	
MW-07	01/13/97	7.66	--	--	--	Destroyed during construction activities
MW-07						Destroyed during construction activities
MW-07R	02/11/02	9.93	4.95	--	4.98	
MW-07R	05/20/02	9.93	7.29	--	2.64	
MW-07R	08/27/02	9.93	7.17	--	2.76	
MW-07R	11/04/02	9.93	7.53	--	2.40	
MW-07R	02/18/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/09/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/11/03	--	--	--	--	Not Measured-Located & cleaned out
MW-07R	09/15/03	13.92	8.40	--	5.52	
MW-07R	11/18/03	13.92	8.17	--	5.75	
MW-07R	02/24/04	13.92	5.64	--	8.28	
MW-07R	05/10/04	13.92	6.70	--	7.22	
MW-07R	08/24/04	13.92	6.95	--	6.97	
MW-07R	12/13/04	13.92	6.43	--	7.49	
MW-07R	03/08/05	13.92	6.67	--	7.25	
MW-07R	06/06/05	13.92	6.48	--	7.44	

MW-07R	09/19/05	13.92	7.35	--	6.57	
MW-07R	12/12/05	13.92	6.71	--	7.21	
MW-07R	03/13/06	13.92	5.59	--	8.33	
MW-07R	06/05/06	13.92	7.20	--	6.72	
MW-07R	09/11/06	13.92	7.30	--	6.62	
MW-07R	12/11/06	13.92	5.50	--	8.42	
MW-07R	03/26/07	13.92	5.84	--	8.08	
MW-07R	06/18/07	13.92	6.80	--	7.12	
MW-07R	09/25/07	13.92	7.27	--	6.65	
MW-07R	12/10/07	13.92	5.60	--	8.32	
MW-07R	03/03/08	13.92	6.20	--	7.72	
MW-07R	06/02/08	13.92	6.88	--	7.04	
MW-07R	09/04/08	13.92	6.94	--	6.98	
MW-07R	12/04/08	13.92	7.84	--	6.08	
MW-07R	03/04/09	13.92	6.30	--	7.62	
MW-07R	06/01/09	13.92	6.57	--	7.35	
MW-07R	09/21/09	13.92	7.24	--	6.68	
MW-07R	11/16/09	13.92	6.04	--	7.88	
MW-07R	03/08/10	13.92	5.63	--	8.29	
MW-07R	06/07/10	13.92	6.04	--	7.88	
MW-07R	09/09/10	13.92	7.05	--	6.87	
MW-07R	11/15/10	13.92	6.11	--	7.81	
MW-07R	03/01/11	13.92	5.43	--	8.49	
MW-07R	05/23/11	13.92	5.66	--	8.26	
MW-07R	08/29/11	13.92	6.97	--	6.95	
MW-07R	12/01/11	13.92	6.24	--	7.68	
MW-07R	03/01/12	13.92	6.10	--	7.82	
MW-07R	05/30/12	13.92	6.12	--	7.80	
MW-07R	08/25/12	13.92	--	--	--	Not Measured
MW-07R	11/07/12	13.92	6.02	--	7.90	
MW-07R	02/27/13	13.92	5.84	--	8.08	
MW-07R	04/08/13	13.92	5.49	--	8.43	
MW-07R	07/29/13	13.92	6.70	--	7.22	
MW-07R	10/02/13	13.92	6.06	--	7.86	
MW-07R	01/21/14	13.92	6.49	--	7.43	
MW-07R	04/22/14	13.92	5.56	--	8.36	
TMW-B1	09/09/10	--	--	--	--	Not Measured-SPH recovery unit in well
TMW-B1	05/23/11	--	7.37	--	--	Not Measured-SPH recovery unit in well
TMW-B1	12/01/11	--	8.17	--	--	Not Measured-SPH recovery unit in well
TMW-B1	03/01/12	--	7.75	--	--	Not Measured-SPH recovery unit in well
TMW-B1	08/25/12	--	8.37	--	--	Not Measured
TMW-B1	07/29/13	--	7.80	--	--	
TMW-B1	10/02/13	--	7.47	--	--	
TMW-B1	01/21/14	--	7.78	--	--	
TMW-B1	04/22/14	--	6.99	--	--	
TMW-1	06/21/13	--	3.44	--	--	Baseline monitoring event
TMW-1	07/29/13	--	3.72	--	--	
TMW-1	08/26/13	--	3.74	--	--	Two-month monitoring event
TMW-1	10/02/13	--	2.97	--	--	
TMW-1	01/21/14	--	3.48	--	--	
TMW-1	04/22/14	--	2.09	--	--	
TMW-2	06/21/13	--	3.83	--	--	Baseline monitoring event
TMW-2	07/29/13	--	3.94	--	--	
TMW-2	08/26/13	--	3.91	--	--	Two-month monitoring event
TMW-2	10/02/13	--	3.15	--	--	
TMW-2	01/21/14	--	3.63	--	--	
TMW-2	04/22/14	--	2.36	--	--	
TMW-3	06/21/13	--	3.81	--	--	Baseline monitoring event
TMW-3	07/29/13	--	3.91	--	--	
TMW-3	08/26/13	--	3.88	--	--	Two-month monitoring event
TMW-3	10/02/13	--	3.14	--	--	
TMW-3	01/21/14	--	3.76	--	--	
TMW-3	04/22/14	--	2.41	--	--	
TMW-4	06/21/13	--	3.50	--	--	Baseline monitoring event
TMW-4	07/29/13	--	3.75	--	--	
TMW-4	08/26/13	--	3.80	--	--	Two-month monitoring event
TMW-4	10/02/13	--	2.99	--	--	
TMW-4	01/21/14	--	3.45	--	--	
TMW-4	04/22/14	--	2.20	--	--	
TMW-5	06/21/13	--	3.24	--	--	Baseline monitoring event
TMW-5	07/29/13	--	3.31	--	--	
TMW-5	08/26/13	--	3.39	--	--	Two-month monitoring event
TMW-5	10/02/13	--	2.80	--	--	
TMW-5	01/21/14	--	3.22	--	--	

TMW-5	04/22/14	--	2.42	--	--	
TMW-6	06/21/13	--	2.93	--	--	Baseline monitoring event
TMW-6	07/29/13	--	2.91	--	--	
TMW-6	08/26/13	--	2.92	--	--	Two-month monitoring event
TMW-6	10/02/13	--	2.12	--	--	
TMW-6	01/21/14	--	2.74	--	--	
TMW-6	04/22/14	--	1.72	--	--	

Notes:

BTOC = Below Top of casing; Depth to groundwater measured from TOC.

feet-msl = feet above mean sea level.

Wells MW-10D and MW-11D were deep wells, screened from 30 to 35 feet below grade.

^ = Prior to September 2003 monitoring event, top of casing elevation relative to N.G.V.D. 1929 TIDAL 2 vertical datum (survey benchmark elev=10.617). All TOC elevations were re-surveyed in July 2003, relative to N.A.V.D. 1988 vertical datum with modified benchmark elevations to account for shifts from February 2001 earthquake.

* = Groundwater elevation corrected for separate-phase hydrocarbon thickness using the specific gravity of diesel (0.8).

QA/QC: Rory G. Henneck

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-5	02/14/02	<0.25	2.3	--	<0.5	--	0.00055	0.0017	<0.0005	<0.0005	--	--	
A-5	05/22/02	<0.25	2.0	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	08/29/02	<0.25	1.2	--	<0.5	--	0.0017	0.00062	<0.0005	0.00099	--	--	
A-5	11/06/02	<0.25	1.2	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	02/20/03	<0.25	<0.25	--	<0.5	--	0.00086	0.0019	<0.0005	0.0010	--	--	
A-5	06/10/03	0.26	0.40	--	<0.25	--	<0.0005	0.00067	<0.0005	0.00070	--	--	
A-5	09/17/03	<0.25	0.60	--	<0.50	--	0.0042	<0.0005	<0.0005	<0.0005	--	--	
A-5	11/20/03	<0.25	0.53	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	02/26/04	<0.25	3.3	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-5	05/12/04	0.27	0.43	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00057	--	--	
A-5	08/25/04	<0.25	1.1	--	<0.50	--	0.0029	<0.0005	<0.0005	<0.0005	--	--	
A-5	12/14/04	<0.25	0.43	--	<0.50	--	0.021	<0.001	<0.001	<0.001	--	--	
A-5	03/10/05	0.43	5.2	--	<0.50	--	0.12	0.0025	<0.001	0.0012	--	--	
A-5	06/07/05	0.54	2.4	--	1.7	--	0.12	0.0028	<0.001	0.0013	--	--	
A-5	09/20/05	0.37	1.2	--	<0.50	--	0.037	0.0017	<0.001	0.0011	--	--	
A-5	12/13/05	0.44	0.31	--	<0.50	--	0.049	0.0021	<0.0005	0.0013	--	--	
A-5	03/15/06	0.36	0.45	--	<0.50	--	0.052	0.0017	<0.001	0.0017	--	--	
A-5	06/08/06	0.91	0.55	--	<0.50	--	0.099	0.0036	0.00076	0.0034	--	--	
A-5	09/12/06	0.46	0.43	--	<0.50	--	0.031	0.0016	<0.001	0.0014	--	--	
A-5	12/12/06	0.70	0.53	--	<0.50	--	0.079	0.0028	<0.001	0.0025	--	--	
A-5	03/27/07	1.4	--	--	--	--	0.19	0.0045	0.0014	0.0050	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-5	06/19/07	1.1	1.9	--	<0.50	--	0.090	0.0027	0.00072	0.0039	--	--	
A-5	09/24/07	0.72	--	--	--	--	0.039	0.0019	<0.0005	0.0018	--	--	
A-5	12/11/07	0.31	--	--	--	--	0.017	0.00096	<0.0005	0.00088	--	--	
A-5	03/04/08	1.4	--	--	--	--	0.12	0.0040	<0.0010	0.0040	--	--	
A-5	06/03/08	0.85	--	--	--	--	0.048	<0.0015	<0.0015	0.0029	--	--	
A-5	09/08/08	1.5	--	--	--	--	0.15	0.0032	0.0031	0.0076	--	--	
A-5	12/05/08	0.64	--	--	--	--	0.089	<0.0010	<0.0010	0.0038	--	--	
A-5	03/04/09	<0.25	--	--	--	--	0.0011	<0.0010	0.0020	0.0071	--	--	
A-5	06/03/09	0.45	--	--	--	--	0.022	<0.0010	<0.0010	0.0027	--	--	
A-5	09/22/09	0.75	--	--	--	--	0.063	0.0012	0.0041	0.021	--	--	
A-5	11/17/09	0.43	--	--	--	--	0.011	<0.0010	<0.0010	0.0038	--	--	
A-5	03/08/10	0.34	--	--	--	--	0.0059	<0.0010	0.0012	0.0051	--	--	
A-5	06/09/10	<0.25	--	--	--	--	0.0063	<0.0010	<0.0010	0.0019	--	--	
A-5	09/10/10	0.80	--	--	--	--	0.031	0.00170	0.0047	0.025	--	--	
A-5	11/16/10	0.35	--	--	--	--	0.0025	<0.0010	0.0011	0.0086	--	--	
A-5	03/02/11	0.34	--	--	--	--	0.0042	<0.0010	<0.0010	0.0019	--	--	
A-5	05/25/11	0.39	--	--	--	--	0.0078	0.00057	<0.0005	0.0014	--	--	
A-5	08/30/11	0.47	--	--	--	--	0.0027	0.00070	<0.0005	0.0013	--	--	
A-5	12/02/11	0.29	--	--	--	--	0.0017	<0.0010	<0.0010	<0.0020	--	--	
A-5	03/02/12	<0.25	--	--	--	--	0.00094	<0.0005	<0.0005	<0.0005	--	--	
A-5	06/01/12	<0.25	--	--	--	--	0.012	<0.0010	<0.0010	0.0010	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-5 (DUP)	06/01/12	<0.25	--	--	--	--	0.011	<0.0010	<0.0010	0.0010	--	--	Duplicate of A-5
A-5	08/25/12	0.57	--	--	--	--	0.020	0.0012	<0.0010	0.0014	--	--	
A-5	11/08/12	0.27	--	--	--	--	0.028	<0.001	<0.001	0.0011	--	--	
A-5	02/28/13	0.66	--	--	--	--	0.062	0.0017	<0.0005	0.0013	--	--	
A-5	04/10/13	0.46	--	--	--	--	0.014	<0.001	<0.001	<0.001	--	--	
A-5	07/29/13	0.54	--	--	--	--	0.033	0.0022	<0.0005	0.0022	--	--	
A-5	10/03/13	0.47	--	--	--	--	0.049	0.0014	<0.001	0.0016	--	--	
A-5	01/21/14	0.51	--	--	--	--	0.051	0.0012	<0.001	<0.001	--	--	
A-5	04/23/14	0.60	--	--	--	--	0.025	0.0015	<0.0005	0.0011	--	--	
A-8	02/14/02	<0.25	1.6	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	05/22/02	<0.25	0.51	--	<0.5	--	<0.0005	0.00058	<0.0005	<0.0005	--	--	
A-8	08/28/02	<0.25	<0.5	--	<0.5	--	<0.0005	0.0014	<0.0005	0.00066	--	--	
A-8	11/06/02	<0.25	0.43	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	02/20/03	<0.25	<0.25	--	<0.5	--	<0.0005	0.00083	<0.0005	<0.0005	--	--	
A-8	06/10/03	<0.25	<0.25	--	<0.25	--	<0.0005	0.00056	<0.0005	<0.0005	--	--	
A-8	09/17/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	11/20/03	<0.25	1.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	02/26/04	0.35	1.0	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	05/12/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	08/25/04	<0.25	4.9	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-8	12/14/04	<0.25	1.7	--	<0.50	--	0.00056	0.00052	<0.0005	0.00094	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-8	03/10/05	<0.25	2.1	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00055	--	--	
A-8	06/07/05	<0.25	1.2	--	1.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-8	09/20/05	<0.25	3.5	--	0.83	--	0.0012	<0.001	<0.001	0.0012	--	--	
A-8	12/13/05	<0.25	0.54	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.0011	--	--	
A-8	03/15/06	<0.25	0.55	--	<0.50	--	<0.0010	<0.0010	<0.0010	0.0010	--	--	
A-8	06/08/06	<0.25	0.47	--	<0.50	--	<0.0010	<0.0010	<0.0010	0.0010	--	--	
A-8	09/12/06	<0.25	0.76	--	<0.50	--	<0.0010	<0.0010	<0.0010	0.0011	--	--	
A-8	12/12/06	0.27	0.87	--	<0.50	--	<0.0010	0.0011	<0.0010	0.0015	--	--	
A-8	06/19/07	<0.25	2.4	--	0.58	--	<0.0010	<0.0010	<0.0010	0.0010	--	--	
A-8	06/03/08	<0.30	0.46	--	<0.50	--	<0.0015	<0.0015	<0.0015	<0.0015	--	--	
A-8	06/03/09	<0.25	1.6	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
A-8	06/09/10	<0.25	0.45	--	<0.50	--	0.0054	<0.0010	<0.0010	<0.0010	--	--	
A-8	05/25/11	<0.25	1.2	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
A-8	06/01/12	<0.50	0.90	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
A-8	04/10/13	0.25	--	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-8	04/23/14	<0.25	1.5	<0.25	<0.50	<0.50	<0.0005	0.00061	<0.0005	<0.0005	--	--	
A-10	02/14/02	<0.25	9.2	--	<0.5	--	<0.0005	0.00062	<0.0005	<0.0005	--	--	
A-10	05/22/02	0.31	8.8	--	<0.5	--	<0.0005	0.00086	<0.0005	<0.0005	--	--	
A-10	08/28/02	0.30	15	--	<0.5	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-10	11/06/02	0.37	13	--	<0.50	--	<0.0005	0.00057	<0.0005	<0.0005	--	--	
A-10	02/20/03	<0.25	6.0	--	<0.5	--	0.0013	<0.0005	<0.0005	0.00055	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-10	06/10/03	0.45	19	--	<0.25	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-10	09/17/03	0.68	30	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	11/20/03	1.1	89	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	02/26/04	<0.25	35	--	0.74	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	05/12/04	<0.25	3.5	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	08/25/04	<0.25	5.1	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	12/14/04	<0.25	1.1	--	<0.50	--	0.0030	<0.001	<0.001	<0.001	--	--	
A-10	03/10/05	<0.25	4.6	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/07/05	0.30	68	--	2.1	--	0.00069	<0.0005	<0.0005	<0.0005	--	--	
A-10	09/20/05	0.60	1.5	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	03/15/06	<0.25	1.7	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00050	--	--	
A-10	06/08/06	<0.25	0.66	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00050	--	--	
A-10	09/12/06	<0.25	0.65	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00050	--	--	
A-10	12/12/06	<0.25	0.98	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/19/07	<0.25	1.2	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/03/09	<0.25	2.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/09/10	<0.25	0.56	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	05/25/11	<0.25	0.80	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	06/01/12	<0.25	0.62	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	04/10/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-10	04/23/14	<0.25	0.27	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	12/12/06	<0.25	0.98	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	06/03/08	<0.25	0.63	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-12	05/25/11	<0.025	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-14R	02/14/02	<0.25	<0.25	--	<0.5	--	0.00061	0.0021	<0.0005	<0.0005	0.005*	--	
A-14R	05/22/02	<0.25	<0.5	--	<0.5	--	0.00053	0.0021	<0.0005	0.00054	0.02*	--	
A-14R	08/28/02	<0.25	<0.5	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-14R	11/06/02	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-14R	02/20/03	<0.25	<0.25	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-14R	06/10/03	<0.25	<0.25	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	0.020	--	
A-14R	09/17/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.025*	--	
A-14R	11/20/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.032*	--	
A-14R	02/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.018*	--	
A-14R	05/12/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	08/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	12/14/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0072*	--	
A-14R	03/10/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	06/07/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
A-14R	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-14R	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	09/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-14R	06/19/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/03/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	05/25/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	04/10/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-18	05/25/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-19	05/25/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-20	05/25/11	2.5	--	--	--	--	<0.0010	<0.0010	0.037	0.013	--	--	
A-21	02/14/02	<0.25	<0.25	--	<0.5	--	<0.0005	0.0010	<0.0005	<0.0005	<0.005*	--	
A-21	05/22/02	<0.25	<0.5	--	<0.5	--	0.00061	0.0017	<0.0005	0.00057	<0.005*	--	
A-21	08/29/02	<0.25	0.76	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-21	11/06/02	<0.25	0.37	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
A-21	02/19/03	<0.25	<0.5	--	<0.5	--	0.0013	0.0018	<0.0005	0.00061	<0.005*	--	
A-21	06/10/03	0.25	<0.25	--	<0.25	--	0.0082	0.00058	<0.0005	<0.0005	0.062*	--	
A-21	09/16/03	<0.25	<0.25	--	<0.50	--	0.0034	<0.0005	<0.0005	<0.0005	0.0085*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-21	11/19/03	0.47	<0.25	--	<0.50	--	0.061	0.0019	<0.0005	0.0029	0.0067*	--	
A-21	02/25/04	0.63	<0.50	--	<0.50	--	0.013	0.00066	0.045	0.0016	<0.0050*	--	
A-21	05/12/04	0.50	<0.25	--	<0.50	--	0.0019	<0.0005	0.0042	0.00072	<0.0050*	--	
A-21	08/25/04	0.26	<0.25	--	<0.50	--	0.0015	<0.0005	<0.0005	0.0015	<0.0050*	--	
A-21	12/14/04	0.99	<0.25	--	<0.50	--	0.061	0.0025	0.022	0.0083	<0.0050*	--	
A-21	03/10/05	1.5	0.26	--	<0.50	--	0.024	0.0021	0.0025	0.011	0.020*	--	
A-21	06/07/05	1.2	0.35	--	<0.50	--	0.0076	0.00084	0.00077	0.0043	<0.0050*	--	
A-21	09/20/05	1.3	<0.25	--	<0.50	--	0.011	0.0012	0.00066	0.0048	<0.0050*	--	
A-21	12/13/05	1.6	<0.25	--	<0.50	--	0.017	0.00160	0.0015	0.0052	<0.0050*	--	
A-21	03/15/06	0.97	<0.25	--	<0.50	--	0.0098	0.00097	0.0023	0.0033	<0.0050*	--	
A-21	06/08/06	0.82	<0.25	--	<0.50	--	0.0023	0.00059	<0.0005	0.0019	<0.0050*	--	
A-21	09/12/06	0.85	<0.25	--	<0.50	--	0.0019	<0.0005	<0.0005	0.0016	<0.0050*	--	
A-21	12/12/06	0.85	<0.25	--	<0.50	--	0.0071	<0.0005	0.0021	0.0014	<0.0050*	--	
A-21	03/27/07	0.28	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	06/19/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	09/25/07	<0.25	--	--	--	--	0.0040	<0.0005	<0.0005	<0.0005	--	--	
A-21	12/11/07	0.51	--	--	--	--	0.0062	<0.0005	0.026	0.0020	--	--	
A-21	03/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	0.0051	<0.0005	--	--	
A-21	06/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	0.00075	<0.0005	<0.0050	--	
A-21	09/08/08	0.41	--	--	--	--	<0.0005	0.00074	0.0018	0.00053	--	--	
A-21	12/04/08	0.96	--	--	--	--	<0.0010	<0.0010	0.150	<0.0010	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-21	03/04/09	0.48	--	--	--	--	0.0075	<0.0005	0.0068	0.021	--	--	
A-21	06/02/09	0.46	--	--	--	--	0.0027	<0.00050	0.0023	0.0059	0.0087	--	
A-21	09/22/09	0.27	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	11/17/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	03/08/10	<0.25	--	--	--	--	0.0026	<0.0005	0.0019	0.0046	--	--	
A-21	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	09/10/10	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
A-21	11/16/10	0.82	--	--	--	--	<0.0010	<0.0010	0.056	0.011	--	--	
A-21	03/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	08/30/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	12/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
A-21	03/02/12	1.7	--	--	--	--	<0.0010	<0.0010	0.16	0.026	--	--	
A-21	05/30/12	1.5	--	--	--	--	<0.0010	<0.0010	0.027	<0.0010	<0.0050	--	
A-21	08/25/12	1.6	--	--	--	--	<0.0010 o	<0.0010 o	0.024	<0.0010 o	--	--	
A-21	11/08/12	0.53	--	--	--	--	<0.0005	<0.0005	0.0011	0.0015	--	--	
A-21	02/28/13	0.44	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	04/10/13	0.58	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	07/29/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	10/03/13	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-21	01/21/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-21	04/23/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-22R	05/25/11	27	--	--	--	--	3.4	0.086	3.0	1.7	--	--	
A-23R	02/14/02	0.26	2.1	--	<0.5	--	0.060	0.0010	0.0099	0.0072	0.72*a	--	
A-23R	05/20/02	0.74	6.9	--	<0.5	--	0.15	<0.001	0.088	0.0067	0.095*a	--	
A-23R	08/28/02	0.62	2.1	--	<0.5	--	0.20	0.0035	0.021	0.0075	0.23*	--	
A-23R	11/05/02	0.74	1.7	--	<0.5	--	0.22	<0.0015	0.0059	0.014	0.18*	--	
A-23R	02/19/03	0.71	2.3	--	<0.5	--	0.26	0.0033	0.0054	0.0059	0.049*	--	
A-23R	06/10/03	<0.25	1.8	--	<0.25	--	0.0073	<0.001	0.0028	<0.001	<0.005*	--	
A-23R	09/16/03	0.70	1.3	--	<0.50	--	0.043	0.0029	0.057	0.0018	0.38*	--	
A-23R	11/19/03	1.0	0.78	--	<0.50	--	0.080	0.0037	0.069	0.0035	0.13*	--	
A-23R	02/25/04	1.6	0.78	--	<0.50	--	0.26	0.0072	0.061	0.015	0.081*	--	
A-23R	05/12/04	0.28	0.45	--	<0.50	--	0.020	0.00075	0.0022	0.00082	<0.0050*	--	
A-23R	08/25/04	2.3	0.35	--	<0.50	--	0.46	0.012	0.074	0.020	0.012*	--	
A-23R	12/14/04	2.0	0.65	--	<0.50	--	0.37	0.0084	0.041	0.013	0.018*	--	
A-23R	03/10/05	0.60	0.31	--	<0.50	--	0.035	0.0011	0.0045	0.0014	0.035*	--	
A-23R	06/07/05	0.33	<0.25	--	<0.50	--	0.0080	<0.0005	0.0012	<0.0005	0.013*	--	
A-23R	09/20/05	<0.25	<0.25	--	<0.50	--	0.00060	<0.0005	<0.0005	<0.0005	0.0096*a	--	
A-23R	12/14/05	0.37	<0.25	--	<0.50	--	0.019	0.00056	0.00065	0.00058	0.032*	--	
A-23R	03/15/06	1.1	<0.25	--	<0.50	--	0.34	0.0033	<0.0025	0.0051	<0.0050*	--	
A-23R	06/08/06	0.34	<0.25	--	<0.50	--	0.033	<0.0005	<0.0005	0.031	0.0081*	--	
A-23R	09/12/06	0.42	<0.25	--	<0.50	--	0.010	<0.0005	0.032	0.0013	0.035*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-23R	12/12/06	2.1	<0.25	--	<0.50	--	0.52	0.0066	0.053	0.021	<0.0050*	--	
A-23R	03/27/07	0.86	--	--	--	--	0.17	0.0019	0.0019	0.0045	--	--	
A-23R	06/19/07	0.44	--	--	--	--	0.021	0.00058	0.010	0.0013	0.0076*	--	
A-23R	09/24/07	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
A-23R	12/11/07	0.79	--	--	--	--	0.095	0.0025	0.0050	0.0026	--	--	
A-23R	03/04/08	<0.25	--	--	--	--	0.00097	<0.0005	<0.0005	<0.0005	--	--	
A-23R	06/05/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-23R	12/05/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	03/04/09	<0.25	--	--	--	--	0.00073	<0.0005	0.0022	0.013	--	--	
A-23R	06/02/09	<0.25	--	--	--	--	0.0013	<0.00050	0.0021	0.0059	<0.0050*	--	
A-23R	09/21/09	<0.25	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	
A-23R	11/16/09	<0.25	--	--	--	--	<0.0005	<0.0005	0.0010	<0.0005	--	--	
A-23R	03/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
A-23R	09/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	11/16/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	03/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050***	--	
A-23R	08/29/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	12/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
A-23R	03/01/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-23R	05/30/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050***	--	
A-23R	11/07/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	02/27/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	04/08/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-23R	07/29/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	10/02/13	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-23R	01/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	04/22/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
A-25	06/16/11	4.1	--	--	--	--	0.27	0.038	0.28	0.19	--	--	
A-26R	05/25/11	22	--	--	--	--	4.0	0.095	1.6	0.75	--	--	
A-27	02/14/02	2.9	11	--	<0.5	--	0.13	0.014	0.096	0.25	--	--	
A-27	05/22/02	3.3	8.2	--	<0.5	--	0.20	0.016	0.14	0.38	--	--	
A-27	08/29/02	3.8	8.1	--	<0.5	--	0.24	0.016	0.14	0.29	--	--	
A-27	11/06/02	3.2	8.0	--	<0.5	--	0.16	0.016	0.065	0.14	--	--	
A-27	02/19/03	3.1	6.8	--	<0.5	--	0.17	0.017	0.052	0.13	--	--	
A-27	06/10/03	3.7	4.5	--	<0.25	--	0.14	0.013	0.11	0.23	--	--	
A-27	09/16/03	4.5	5.6	--	<0.50	--	0.27	0.020	0.18	0.38	--	--	
A-27	11/19/03	5.9	5.3	--	<0.50	--	0.25	0.023	0.13	0.33	--	--	
A-27	02/25/04	4.4	16	--	<0.50	--	0.15	0.016	0.18	0.30	--	--	
A-27	05/11/04	4.6	5.2	--	<0.50	--	0.16	0.017	0.23	0.38	--	--	
A-27	08/25/04	4.7	2.5	--	<0.50	--	0.25	0.018	0.17	0.24	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-27	12/14/04	4.5	4.4	--	<0.50	--	0.11	0.012	0.099	0.14	--	--	
A-27	03/10/05	5.8	4.7	--	<0.50	--	0.14	0.015	0.16	0.22	--	--	
A-27	06/07/05	4.5	7.8	--	<0.50	--	0.17	0.014	0.24	0.34	--	--	
A-27	09/20/05	6.3	2.3	--	<0.50	--	0.25	0.019	0.18	0.22	--	--	
A-27	12/13/05	3.7	0.83	--	<0.50	--	0.13	0.012	0.083	0.095	--	--	
A-27	03/15/06	4.4	1.3	--	<0.50	--	0.13	0.017	0.19	0.24	--	--	
A-27	06/08/06	4.5	1.1	--	<0.50	--	0.19	0.016	0.23	0.28	--	--	
A-27	09/12/06	3.4	0.82	--	<0.50	--	0.17	0.011	0.12	0.12	--	--	
A-27	12/12/06	3.7	0.90	--	<0.50	--	0.11	0.0096	0.10	0.12	--	--	
A-27	03/27/07	3.2	--	--	--	--	0.063	0.0078	0.047	0.050	--	--	
A-27	06/19/07	2.6	--	--	--	--	0.073	0.0064	0.047	0.053	--	--	
A-27	09/24/07	2.7	--	--	--	--	0.10	0.0072	0.035	0.040	--	--	
A-27	12/11/07	4.7	--	--	--	--	0.16	0.011	0.17	0.13	--	--	
A-27	03/04/08	4.0	--	--	--	--	0.10	0.011	0.14	0.11	--	--	
A-27	06/04/08	2.5	--	--	--	--	0.093	0.0063	0.022	0.041	--	--	
A-27	09/08/08	3.5	--	--	--	--	0.16	0.0091	0.067	0.047	--	--	
A-27	12/04/08	3.1	--	--	--	--	0.13	0.0075	0.091	0.046	--	--	
A-27	03/04/09	2.5	--	--	--	--	0.098	0.0080	0.070	0.043	--	--	
A-27	06/02/09	3.1	--	--	--	--	0.048	0.0065	0.11	0.050	--	--	
A-27	09/22/09	2.9	--	--	--	--	0.054	0.0064	0.099	0.037	--	--	
A-27	11/16/09	3.0	--	--	--	--	0.035	0.0051	0.0921	0.035	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-27	03/09/10	2.4	--	--	--	--	0.024	0.0043	0.089	0.036	--	--	
A-27	06/08/10	2.5	--	--	--	--	0.021	0.0041	0.088	0.031	--	--	
A-27	09/09/10	3.4	--	--	--	--	0.035	0.0054	0.12	0.034	--	--	
A-27	11/16/10	2.1	--	--	--	--	0.014	0.0034	0.070	0.022	--	--	
A-27	03/02/11	2.3	--	--	--	--	0.014	0.0024	0.051	0.016	--	--	
A-27	05/24/11	1.7	--	--	--	--	0.0092	0.0017	0.023	0.0096	--	--	
A-27	08/30/11	2.1	--	--	--	--	0.026	0.0021	0.022	0.011	--	--	
A-27	12/02/11	2.2	--	--	--	--	0.016	0.0026	0.030	0.0094	--	--	
A-27	03/01/12	1.4	--	--	--	--	0.012	0.0018	0.035	0.0077	--	--	
A-27	05/30/12	1.6	--	--	--	--	0.015	0.0016	0.038	0.0066	--	--	
A-27	08/25/12	1.5	--	--	--	--	0.029	0.0018	0.0027	0.0048	--	--	
A-27	11/08/12	1.2	--	--	--	--	0.025	0.0022	0.0093	0.0068	--	--	
A-27	02/28/13	1.6	--	--	--	--	0.038	0.0019	0.057	0.0078	--	--	
A-27	04/10/13	1.3	--	--	--	--	0.035	0.0018	0.041	0.0053	--	--	
A-27	06/21/13	1.0	0.40 K	--	--	--	0.053	0.0024	0.043	0.0083	--	--	Baseline monitoring event
A-27	07/30/13	1.8	--	--	--	--	0.073	0.0039	0.051	0.017	--	--	
A-27 (DUP)	07/30/13	1.5	--	--	--	--	0.058	0.0033	0.04	0.015	--	--	Duplicate of A-27
A-27	10/02/13	1.9	--	--	--	--	0.066	0.0041	0.038	0.021	--	--	
A-27	01/22/14	2.6	--	--	--	--	0.078	0.0042	0.061	0.062	--	--	
A-27	04/22/14	2.9	--	--	--	--	0.062	0.0023	0.074	0.078	--	--	
A-28R	02/14/02	5.3	2.7	--	<0.5	--	0.66	0.027	0.42	0.20	0.035*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-28R	05/22/02	3.1	6.7	--	<0.5	--	0.14	0.010	0.20	0.092	0.05*	--	
A-28R	08/29/02	4.0	6.0	--	<0.5	--	0.15	0.019	0.23	0.078	0.032*	--	
A-28R	11/06/02	3.4	1.8	--	<0.5	--	0.47	0.015	0.053	0.050	0.028*	--	
A-28R	02/19/03	3.5	4.6	--	<0.5	--	0.46	0.015	0.051	0.050	0.013*	--	
A-28R	06/10/03	3.7	2.9	--	<0.25	--	0.31	0.0081	0.085	0.051	0.064*	--	
A-28R	09/16/03	3.8	2.0	--	<0.50	--	1.0	0.013	0.075	0.048	0.17*	--	
A-28R	11/19/03	4.9	<0.25	--	<0.50	--	0.58	0.012	0.059	0.064	0.11*	--	
A-28R	02/25/04	5.1	1.7	--	<0.50	--	0.63	0.0093	0.19	0.076	0.0080*	--	
A-28R	05/12/04	6.5	2.6	--	<0.50	--	0.96	0.012	0.20	0.058	<0.0050*	--	
A-28R	08/25/04	5.9	0.88	--	<0.50	--	2.1	0.018	0.050	0.053	0.043*	--	
A-28R	12/14/04	7.6	3.0	--	<0.50	--	1.4	0.015	0.073	0.062	0.025*	--	
A-28R	03/10/05	10	0.76	--	<0.50	--	1.9	0.019	0.077	0.064	0.0078*	--	
A-28R	06/07/05	6.4	1.2	--	<0.50	--	2.1	0.015	0.069	0.048	0.0068*	--	
A-28R	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
A-28R	12/13/05	5.4	<0.25	--	<0.50	--	0.93	0.011	0.033	0.036	0.012*	--	
A-28R	03/15/06	4.6	<0.25	--	<0.50	--	0.80	0.012	0.11	0.035	<0.0050*	--	
A-28R	06/08/06	4.2	0.49	--	0.73	--	0.87	0.013	0.070	0.035	0.019*	--	
A-28R	09/12/06	5.2	<0.25	--	<0.50	--	1.0	0.015	0.048	0.036	0.016*	--	
A-28R	12/12/06	4.0	0.57	--	<0.50	--	0.30	0.0095	0.027	0.028	<0.0050*	--	
A-28R	03/27/07	5.5	--	--	--	--	0.71	0.014	0.062	0.022	--	--	
A-28R	06/19/07	5.3	--	--	--	--	0.59	0.018	0.058	0.041	<0.0050	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-28R	09/24/07	3.9	--	--	--	--	0.53	0.015	0.041	0.035	--	--	
A-28R	12/11/07	2.1	--	--	--	--	0.088	0.0044	0.013	0.015	--	--	
A-28R	03/04/08	3.6	--	--	--	--	0.27	0.0087	0.044	0.022	--	--	
A-28R	06/04/08	2.2	--	--	--	--	0.095	0.0049	0.0060	0.012	<0.0050	--	
A-28R	12/04/08	1.4	--	--	--	--	0.026	0.0022	0.011	0.0075	--	--	
A-28R	03/04/09	1.4	--	--	--	--	0.12	0.0060	0.057	0.029	--	--	
A-28R	06/02/09	2.1	--	--	--	--	0.055	0.0020	0.016	0.0069	<0.0050	--	
A-28R	09/22/09	2.3	--	--	--	--	0.10	0.0026	0.038	0.016	--	--	
A-28R	11/16/09	1.7	--	--	--	--	0.080	0.0020	0.039	0.017	--	--	
A-28R	03/09/10	7.3	--	--	--	--	0.65	0.0079	0.32	0.092	--	--	
A-28R	06/08/10	2.2	--	--	--	--	0.14	0.0018	0.045	0.013	<0.0050	--	
A-28R	09/10/10	2.4	--	--	--	--	0.12	0.0020	0.041	0.011	--	--	
A-28R	11/16/10	1.8	--	--	--	--	0.077	0.0017	0.047	0.013	--	--	
A-28R	03/02/11	2.8	--	--	--	--	0.15	0.0029	0.083	0.016	--	--	
A-28R	05/24/11	3.5	--	--	--	--	0.21	0.0029	0.091	0.015	<0.0050	--	
A-28R	08/30/11	3.7	--	--	--	--	0.14	0.0026	0.061	0.011	--	--	
A-28R	12/02/11	3.6	--	--	--	--	0.074	0.0022	0.056	0.0092	--	--	
A-28R	03/02/12	2.6	--	--	--	--	0.086	0.0022	0.075	0.012	--	--	
A-28R	05/30/12	2.7	--	--	--	--	0.065	0.0017	0.050	0.0085	<0.0050	--	
A-28R	08/25/12	1.8	--	--	--	--	0.030	0.00089	0.010	0.0031	--	--	
A-28R	11/08/12	0.81	--	--	--	--	0.015	<0.0005	0.0066	0.0013	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-28R	02/28/13	2.6	--	--	--	--	0.062	<0.0025	0.044	0.0059	--	--	
A-28R	04/10/13	3.2	--	--	--	--	0.035	0.0013	0.03	0.0042	<0.0050	--	
A-28R	07/29/13	2.5	--	--	--	--	0.043	0.0018	0.019	0.0034	--	--	
A-28R	10/02/13	1.4	--	--	--	--	0.015	<0.001	0.0043	0.0026	--	--	
A-28R	01/22/14	1.4	--	--	--	--	0.17	0.0027	0.006	0.0033	--	--	
A-28R	04/22/14	2.2	--	--	--	--	0.062	0.0022	0.016	0.0025	<0.0050	--	
A-29R	05/25/11	5.6	--	--	--	--	2.3	0.018	<0.015	0.024	--	--	
11	06/24/13	<0.25	0.30	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	Baseline monitoring event
11	07/30/13	<0.25	--	--	--	--	--	--	--	--	--	--	
11	10/03/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
11	01/22/14	0.75	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
11	04/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
12	06/24/13	4.1	5.3 K	--	--	--	0.037	0.045	0.13	0.53	--	--	Baseline monitoring event
12	10/03/13	2.7	--	--	--	--	0.002	0.0057	0.043	0.18	--	--	
12	01/22/14	4.2	--	--	--	--	0.0067	0.015	0.027	0.34	--	--	
12	04/21/14	2.6	--	--	--	--	0.015	0.014	0.088	0.15	--	--	
MW-1	02/13/02	<0.25	2.0	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-1	05/21/02	<0.25	1.9	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-1	08/28/02	<0.25	1.0	--	<0.5	--	0.0013	0.0067	0.00052	0.0016	<0.005*	--	
MW-1	11/05/02	<0.25	0.87	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	0.021*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-1	02/19/03	<0.25	1.9	--	<0.5	--	<0.0005	0.00058	<0.0005	<0.0005	<0.005*	--	
MW-1	06/10/03	<0.25	1.1	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-1	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	11/19/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	02/25/04	<0.25	1.3	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	05/11/04	<0.25	0.87	--	<0.50	--	<0.0005	0.00068	<0.0005	<0.0005	<0.0050*	--	
MW-1	08/25/04	0.83	0.40	--	<0.50	--	<0.0005	<0.0005	0.00065	<0.0005	<0.0050*	--	
MW-1	12/15/04	<0.25	0.38	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	03/09/05	<0.25	0.63	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	06/08/05	<0.25	0.80	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	09/21/05	<0.25	0.40	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	06/07/06	<0.25	0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0052*	--	
MW-1	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-1	06/20/07	<0.25	0.75	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/05/08	<0.25	0.32	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.0013	<0.0050	--	
MW-1	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-1	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	02/13/02	<0.25	0.71	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	05/21/02	<0.25	0.66	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	08/29/02	<0.25	0.91	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	11/05/02	<0.25	0.73	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-2	02/19/03	<0.25	0.74	--	<0.5	--	<0.0005	0.00062	<0.0005	<0.0005	0.028*	--	
MW-2	06/10/03	<0.25	0.61	--	<0.25	--	<0.0005	0.00071	<0.0005	<0.0005	0.026*a	--	
MW-2	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.062*	--	
MW-2	11/19/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.021*	--	
MW-2	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.030*	--	
MW-2	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	08/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	12/14/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	03/10/05	<0.25	0.29	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	06/07/05	<0.25	0.91	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.036*	--	
MW-2	09/20/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.024*	--	
MW-2	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0063*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-2	09/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-2	06/19/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/04/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.063	--	
MW-2	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	02/13/02	<0.25	1.8	--	<0.5	--	0.011	0.0015	0.0045	0.011	<0.005*	--	
MW-3	05/20/02	0.38	1.9	--	<0.5	--	0.052	0.0028	0.025	0.020	0.01*	--	
MW-3	08/28/02	0.62	2.5	--	<0.5	--	0.11	0.0071	0.021	0.030	<0.005*	--	
MW-3	11/06/02	0.63	1.1	--	<0.5	--	0.14	0.0053	0.021	0.015	0.006*	--	
MW-3	02/19/03	<0.25	1.8	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	0.014*	--	
MW-3	06/11/03	<0.25	1.3	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	0.019*	--	
MW-3	09/17/03	<0.25	1.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.042*	--	
MW-3	11/20/03	<0.25	2.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0063*	--	
MW-3	02/25/04	<0.25	1.2	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.025*	--	
MW-3	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	08/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0051*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-3	12/15/04	<0.25	0.33	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.018*	--	
MW-3	03/09/05	<0.25	<0.25	--	<0.50	--	0.0010	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	06/08/05	<0.25	<0.25	--	<0.50	--	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	09/21/05	<0.25	<0.25	--	<0.50	--	0.00094	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-3	06/20/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	0.0011	0.0053	<0.0050	--	
MW-3	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-4	02/14/02	0.78	280	--	<50	--	0.30	0.0072	0.0023	0.0082	--	--	
MW-4	05/21/02	1.5	8.6	--	<0.5	--	0.43	0.023	0.034	0.13	--	--	
MW-4	08/28/02	3.3	30	--	2.6	--	1.1	0.016	0.016	0.024	--	--	
MW-4	11/05/02	--	--	--	--	--	--	--	--	--	--	--	Not Sampled

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-4	02/19/03	3.1	31	--	<0.5	--	0.056	0.0017	0.014	0.020	--	--	
MW-4	06/10/03	0.39	12	--	<0.25	--	0.031	0.0012	0.0091	0.0096	--	--	
MW-4	09/16/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	11/19/03	0.25	19	--	<0.50	--	0.033	<0.001	0.0042	0.0069	--	--	
MW-4	02/25/04	0.36	15	--	<0.50	--	0.035	0.0014	0.0056	0.0094	--	--	
MW-4	05/12/04	0.33	7.4	--	<0.50	--	0.012	<0.001	0.0048	0.0058	--	--	
MW-4	08/26/04	<0.50	5.1	--	<0.50	--	0.014	<0.0025	0.0039	0.0069	--	--	
MW-4	12/15/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-4	03/09/05	<2.0	11	--	<0.50	--	<0.01	<0.01	<0.01	0.013	--	--	
MW-4	06/08/05	<1.0	16	--	1.1	--	<0.005	<0.005	<0.005	<0.005	<0.0050	--	
MW-4	09/21/05	<2.0	19	--	2.1	--	<0.010	<0.010	<0.010	<0.010	--	--	
MW-4	12/14/05	<0.50	6.2	--	0.81	--	0.012	<0.0025	0.0032	0.0084	--	--	
MW-4	03/14/06	<0.40	3.9	--	0.69	--	0.0063	<0.0020	0.0020	0.0062	--	--	
MW-4	06/07/06	<0.50	4.5	--	<0.50	--	0.0037	<0.0025	<0.0025	<0.0025	--	--	
MW-4	09/13/06	<0.50	2.7	--	<0.50	--	0.0034	<0.0025	<0.0025	0.0029	--	--	
MW-4	12/13/06	<0.25	3.7	--	0.62	--	0.0012	<0.0005	<0.0005	0.0023	--	--	
MW-4	06/20/07	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-4	06/05/08	<0.25	1.2	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-4	06/01/09	<0.25	2.1	--	0.61	--	<0.0005	<0.0005	<0.0005	0.00080	--	--	
MW-4	06/08/10	<0.25	0.86	--	<0.50	--	<0.0005	0.00057	<0.0005	0.0018	--	--	
MW-4	05/23/11	<0.25	1.6	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-4	06/01/12	<0.50	2.0	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-4	04/09/13	<0.50 O	--	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-4	04/23/14	<0.25	5.3	1.7	0.90	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-5	02/13/02	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-5	05/21/02	<0.25	<0.5	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	0.01*	--	
MW-5	08/29/02	<0.25	1.2	--	<0.5	--	<0.0005	0.0018	<0.0005	0.00063	<0.005*	--	
MW-5	11/05/02	<0.25	1.6	--	<0.5	--	0.0055	0.0016	<0.0005	0.00056	<0.005*	--	
MW-5	02/20/03	<0.25	<0.25	--	<0.5	--	<0.0005	0.00066	<0.0005	<0.0005	<0.005*	--	
MW-5	06/11/03	<0.25	0.36	--	<0.25	--	<0.0005	0.00079	<0.0005	<0.0005	<0.005*	--	
MW-5	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.011*	--	
MW-5	11/20/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0086*	--	
MW-5	02/24/04	<0.25	<0.50	--	<0.50	--	<0.0005	0.0014	<0.0005	<0.0005	<0.0050*	--	
MW-5	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	08/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	12/15/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	03/09/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.11*	--	
MW-5	06/08/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	09/21/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-5	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	--	
MW-5	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0099*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-5	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.013*	--	Not Sampled
MW-5	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0088*	--	
MW-5	06/20/07	--	--	--	--	--	--	--	--	--	--	--	
MW-5	06/04/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0094	--	
MW-5	06/02/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00078	<0.0050	--	
MW-5	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-5	05/24/11	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-5	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-5	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0073	--	
MW-5	04/21/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	02/13/02	0.97	1.1	--	<0.5	--	0.014	0.00070	<0.0005	0.00065	<0.005*	--	
MW-6	05/22/02	1.1	2.5	--	<0.5	--	0.035	0.0012	0.0024	0.00072	<0.005*	--	
MW-6	08/29/02	0.58	6.4	--	<0.5	--	0.0014	<0.001	<0.001	<0.001	<0.005*	--	
MW-6	11/05/02	0.59	7.3	--	<0.5	--	0.064	<0.001	<0.001	0.0016	0.02*	--	
MW-6	02/19/03	0.54	1.7	--	<0.5	--	0.0062	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-6	06/10/03	0.70	1.9	--	<0.25	--	0.025	0.0011	0.00052	0.00051	<0.005*	--	
MW-6	09/16/03	0.68	<0.50	--	<0.50	--	<0.0005	<0.0005	0.00053	<0.0005	0.019*	--	
MW-6	11/19/03	0.44	1.6	--	<0.50	--	0.0095	0.00067	<0.0005	0.00051	<0.0050*	--	
MW-6	02/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	05/11/04	1.0	0.67	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	08/25/04	<0.25	0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-6	12/14/04	0.82	0.81	--	<0.50	--	0.0080	<0.0005	<0.0005	<0.0005	0.011*	--	
MW-6	03/10/05	1.0	0.42	--	<0.50	--	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	06/07/05	0.92	<0.25	--	<0.50	--	0.0014	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	09/20/05	0.91	<0.25	--	<0.50	--	<0.0005	<0.0005	0.00062	<0.0005	<0.0050*	--	
MW-6	12/13/05	1.2	0.38	--	<0.50	--	0.0032	<0.0005	0.00050	<0.0005	<0.0050*	--	
MW-6	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-6	09/12/06	0.71	<0.25	--	<0.50	--	<0.0005	0.00055	<0.0005	<0.0005	<0.0050*	--	
MW-6	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	0.00055	<0.0005	<0.0005	<0.0050*	--	
MW-6	03/27/07	0.81	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/19/07	0.73	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/24/07	0.55	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-6	12/11/07	0.54	--	--	--	--	0.0014	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/04/08	0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/08/08	0.51	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	12/04/08	0.43	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/04/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	06/02/09	0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.0025	<0.0050	--	
MW-6	09/21/09	0.33	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	11/17/09	0.31	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-6	03/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.00095	--	--	
MW-6	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	09/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	11/15/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	03/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	08/30/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	12/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
MW-6	03/01/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	05/31/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	08/25/12	0.27	--	--	--	--	<0.00050	<0.00050	<0.00050	<0.00050	--	--	
MW-6	11/08/12	0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	02/28/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	04/09/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	07/29/13	0.30	--	--	--	--	<0.0005	<0.0005	<0.0005	0.00059	--	--	
MW-6	10/02/13	0.69	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-6	04/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-7	02/14/02	13	7.5	--	<0.5	--	0.20	0.24	0.57	1.8	0.035*	--	
MW-7	05/21/02	6.6	11	--	<0.5	--	0.16	0.089	0.43	0.66	0.04*	--	
MW-7	08/29/02	2.9	5.7	--	<0.5	--	0.12	0.042	0.24	0.11	0.047*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-7	11/05/02	0.90	5.9	--	<0.5	--	0.021	0.0022	0.0040	0.0066	0.041*	--	
MW-7	02/20/03	9.7	11	--	<0.5	--	0.12	0.13	0.33	1.4	0.11*a	--	
MW-7	06/11/03	5.7	8.7	--	<0.25	--	0.13	0.092	0.26	0.52	0.081*a	--	
MW-7	09/17/03	1.4	12	--	<0.50	--	0.078	0.031	0.15	0.089	0.11*a	--	
MW-7	11/20/03	0.26	0.79	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.035	0.019*a	--	
MW-7	02/26/04	15	21	--	<0.50	--	0.11	0.34	0.63	3.8	0.034*a	--	
MW-7	05/11/04	6.3	11	--	<0.50	--	0.059	0.15	0.31	1.3	0.0083*a	--	
MW-7	08/26/04	7.1	20	--	<0.50	--	0.054	0.22	0.34	1.7	0.067*a	--	
MW-7	12/15/04	18	4.4	--	<0.50	--	0.14	0.37	0.53	3.0	0.19*a	--	
MW-7	03/09/05	3.5	2.1	--	<0.50	--	0.045	0.034	0.090	0.27	0.079*a	--	
MW-7	06/08/05	2.9	2.3	--	<0.50	--	0.054	0.050	0.11	0.44	0.069*a	--	
MW-7	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-7	09/21/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-7	12/14/05	8.8	0.59	--	<0.50	--	0.16	0.19	0.31	1.5	0.042*a	--	
MW-7	03/14/06	15	0.50	--	<0.50	--	0.12	0.26	0.50	3.6	0.026*	--	
MW-7	06/07/06	17	0.85	--	<0.50	--	0.12	0.35	0.69	4.5	0.023*	--	
MW-7	09/13/06	2.4	0.32	--	<0.50	--	0.050	0.055	0.19	0.39	0.021*a	--	
MW-7	12/13/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-7	03/27/07	13	--	--	--	--	0.091	0.22	0.60	2.5	--	--	
MW-7	06/20/07	6.6	--	--	--	--	0.027	0.060	0.19	1.1	0.030*	--	
MW-7	09/24/07	6.6	--	--	--	--	0.023	0.094	0.27	2.0	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-7	12/11/07	27	--	--	--	--	0.031	0.33	0.87	6.6	--	--	
MW-7	03/04/08	19	--	--	--	--	0.032	0.19	0.66	3.8	--	--	
MW-7	06/04/08	6.4	--	--	--	--	<0.01	0.088	0.30	0.77	0.019***	--	
MW-7	09/08/08	15	--	--	--	--	0.015	0.064	0.35	2.6	--	--	
MW-7	12/05/08	8.7	--	--	--	--	0.019	0.046	0.33	1.5	--	--	
MW-7	03/04/09	5.7	--	--	--	--	0.014	0.073	0.25	1.4	--	--	
MW-7	06/02/09	5.5	--	--	--	--	0.014	0.029	0.15	0.89	0.0072*	--	
MW-7	09/21/09	6.1	--	--	--	--	0.0072	0.030	0.18	1.1	--	--	
MW-7	11/17/09	18	--	--	--	--	<0.020	0.16	0.54	4.3	--	--	
MW-7	03/09/10	5.8	--	--	--	--	0.013	0.047	0.20	0.90	--	--	
MW-7	06/09/10	4.9	--	--	--	--	0.0075	0.058	0.25	1.2	0.0064*	--	
MW-7	09/09/10	1.9	<0.25	--	<0.50	--	0.0036	0.0082	0.041	0.23	--	--	
MW-7	11/15/10	8.8	--	--	--	--	0.012	0.10	0.34	2.1	--	--	
MW-7	03/01/11	4.9	--	--	--	--	0.0051	0.055	0.11	0.77	--	--	
MW-7	05/24/11	5.0	--	--	--	--	0.0062	0.050	0.14	0.66	0.0082***	--	
MW-7	08/29/11	2.3	--	--	--	--	0.0022	0.0055	0.026	0.16	--	--	
MW-7	12/01/11	5.2	--	--	--	--	<0.0005	0.026	0.036	0.83	--	--	
MW-7	03/01/12	6.0	<0.25	--	<0.50	--	0.011	0.0987	0.24	0.90	--	--	
MW-7	05/31/12	8.8	--	--	--	--	0.020	0.14	0.36	1.9	0.0063***	--	
MW-7	08/25/12	1.8	--	--	--	--	0.0024	0.0062	0.030	0.160	--	--	
MW-7	11/08/12	2.4	--	--	--	--	0.0028	0.028	0.072	0.55	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-7	02/28/13	1.3	--	--	--	--	<0.0015	0.007	0.007	0.19	--	--	
MW-7	04/09/13	8.1	--	--	--	--	<0.005	0.07	0.25	1.4	0.0097	0.0097	
MW-7	04/09/13	5.7	--	--	--	--	0.0071	0.072	0.24	1.2	--	--	
MW-7	06/21/13	4.0	0.27 K	--	--	--	0.0059	0.064	0.28	1.1	--	--	Baseline monitoring event
MW-7	07/30/13	7.2	--	--	--	--	0.016	0.11	0.29	1.6	--	--	
MW-7	10/03/13	2.8	--	--	--	--	0.016	0.033	0.15	0.54	--	--	
MW-7	01/22/14	2.1	--	--	--	--	0.014	0.01	0.13	0.17	--	--	
MW-7	04/21/14	1.9	--	--	--	--	0.013	0.0093	0.11	0.2	<0.0050	<0.0050	
MW-7 (DUP)	04/21/14	2.4	--	--	--	--	0.015	0.012	0.13	0.25	--	--	Duplicate of MW-7
MW-8	02/14/02	<0.25	8.1	--	<5.0	--	<0.0005	0.00086	<0.0005	<0.0005	0.03*	--	
MW-8	08/29/02	<0.25	7.5	--	<0.5	--	<0.0005	0.00082	<0.0005	<0.0005	0.017*	--	
MW-8	11/05/02	<0.25	1.7	--	1.2	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	--	
MW-8	02/20/03	<0.25	6.6	--	<0.5	--	<0.0005	0.00055	<0.0005	0.0024	0.029*	--	
MW-8	06/11/03	<0.25	3.8	--	<0.25	--	0.0013	<0.001	<0.001	<0.001	0.012*	--	
MW-8	09/17/03	<0.25	3.3	--	0.77	--	<0.0005	<0.0005	<0.0005	<0.0005	0.030*	--	
MW-8	11/20/03	<0.25	2.5	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-8	02/26/04	<0.25	2.7	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.016*	--	
MW-8	05/11/04	<0.25	1.5	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-8	08/26/04	<0.25	1.0	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-8	12/15/04	<0.25	1.5	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	0.0071*	--	
MW-8	03/09/05	<0.25	1.6	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0094*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Diesel, SGC	TPH-Oil	TPH-Oil, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-8	06/08/05	<0.25	1.8	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.014*	--	
MW-8	09/21/05	<0.25	0.97	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.011*	--	
MW-8	12/14/05	<0.25	1.1	--	0.58	--	<0.001	<0.001	<0.001	0.0013	0.0060*	--	
MW-8	03/14/06	<0.25	0.54	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.011*	--	
MW-8	06/07/06	<0.25	0.88	--	0.61	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0093*	--	
MW-8	09/13/06	<0.25	0.35	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	--	
MW-8	12/13/06	<0.25	0.82	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0060*	--	
MW-8	06/20/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.029	--	
MW-8	06/04/08	<0.25	0.37	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	0.064	--	
MW-8	06/02/09	<0.25	0.52	--	<0.50	--	<0.00050	<0.00050	<0.00050	<0.00050	0.020	--	
MW-8	06/09/10	<0.25	0.82	--	0.65	--	<0.0005	<0.0005	<0.0005	<0.0005	0.013	--	
MW-8	05/24/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.020	--	
MW-8	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	0.032	--	
MW-8	04/10/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.046	--	
MW-8	04/24/14	<0.25	0.49	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.027	--	
MW-9	06/11/03	6.0	13	--	<0.50	--	0.0031	0.036	0.076	0.60	0.022*	--	
MW-9	09/17/03	5.3	39	--	0.72	--	0.026	0.027	0.090	0.45	0.0095*	--	
MW-9	11/20/03	8.5	19	--	<0.50	--	<0.005	0.018	0.14	1.1	0.0096*	--	
MW-9	02/26/04	4.1	28	--	<0.50	--	0.022	0.0072	0.025	0.47	0.0083*	--	
MW-9	05/11/04	4.1	5.8	--	<0.50	--	0.0023	0.0093	0.081	0.44	<0.0050*	--	
MW-9	08/26/04	4.2	6.2	--	<0.50	--	0.0066	0.025	0.13	0.43	0.0099*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-9	12/15/04	5.4	7.6	--	<0.50	--	<0.0025	0.011	0.12	0.39	0.0094*	--	
MW-9	03/09/05	4.5	3.5	--	<0.50	--	0.0037	0.0047	0.042	0.18	0.021*	--	
MW-9	06/08/05	3.2	3.9	--	<0.50	--	0.0035	0.0087	0.069	0.17	0.0076*	--	
MW-9	09/21/05	2.3	2.6	--	<0.50	--	0.0070	0.0077	0.033	0.12	0.0076*	--	
MW-9	12/14/05	4.7	1.2	--	<0.50	--	0.0078	0.010	0.12	0.38	0.0095*	--	
MW-9	03/14/06	2.4	1.4	--	<0.50	--	0.0024	0.0034	0.018	0.12	0.013*	--	
MW-9	06/07/06	<0.25	1.0	--	<0.50	--	0.0011	0.023	0.049	0.21	0.021*	--	
MW-9	09/13/06	1.8	0.46	--	<0.50	--	0.0044	0.016	0.063	0.064	0.010*	--	
MW-9	12/13/06	2.6	3.8	--	<0.50	--	<0.0025	<0.0025	0.024	0.19	0.025*	--	
MW-9	03/27/07	1.5	--	--	--	--	0.16	0.0013	0.0051	0.026	--	--	
MW-9	06/20/07	2.0	--	--	--	--	0.066	0.015	0.051	0.12	0.017	--	
MW-9	09/24/07	1.7	--	--	--	--	0.0036	0.0072	0.029	0.093	--	--	
MW-9	12/11/07	2.9	--	--	--	--	<0.0025	<0.0025	0.057	0.55	--	--	
MW-9	03/04/08	3.0	--	--	--	--	0.0096	<0.0015	0.016	0.15	--	--	
MW-9	06/04/08	2.0	--	--	--	--	0.0019	0.0073	0.039	0.089	0.0088	--	
MW-9	09/08/08	2.4	--	--	--	--	0.0022	0.020	0.077	0.16	--	--	
MW-9	12/05/08	0.93	--	--	--	--	<0.0015	<0.0015	<0.0015	0.052	--	--	
MW-9	03/04/09	0.42	--	--	--	--	<0.0010	<0.0010	0.0040	0.031	--	--	
MW-9	06/02/09	1.2	--	--	--	--	<0.00050	<0.00050	0.0041	0.032	0.0099	--	
MW-9	09/22/09	1.2	--	--	--	--	0.0060	0.0018	0.0068	0.033	--	--	
MW-9	11/17/09	<0.25	--	--	--	--	<0.0005	0.00050	<0.0005	0.0043	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-9	03/09/10	<0.25	--	--	--	--	0.00092	0.00050	0.00055	0.00071	--	--	
MW-9	06/09/10	0.30	--	--	--	--	0.0014	<0.0005	0.00081	0.0058	<0.0050	--	
MW-9	09/09/10	0.48	--	--	--	--	0.0058	0.0014	0.0061	0.025	--	--	
MW-9	11/15/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.00085	--	--	
MW-9	03/01/11	<0.25	--	--	--	--	0.014	<0.0005	<0.0005	0.00085	--	--	
MW-9	05/24/11	<0.25	--	--	--	--	0.0043	<0.0005	<0.0005	0.00085	0.0093	--	
MW-9	08/29/11	0.28	--	--	--	--	0.0067	<0.0005	0.00078	0.0038	--	--	
MW-9	12/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.0024	--	--	
MW-9	03/01/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	05/31/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012	--	
MW-9	08/25/12	0.67	--	--	--	--	<0.00050	<0.00050	0.00062	0.0057	--	--	
MW-9	11/08/12	<0.25	--	--	--	--	<0.001	<0.001	<0.001	0.0029	--	--	
MW-9	02/28/13	<0.25	--	--	--	--	0.0012	<0.0005	<0.0005	<0.0005	--	--	
MW-9	04/10/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-9	06/24/13	0.33	0.37	--	--	--	0.014	<0.0005	<0.0005	0.0035	--	--	Baseline monitoring event
MW-9	07/30/13	0.27	--	--	--	--	0.0017	<0.0005	0.00071	0.006	--	--	
MW-9	10/03/13	0.30	--	--	--	--	0.0056	<0.0005	<0.0005	0.0092	--	--	
MW-9	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.0013	--	--	
MW-9	04/21/14	<0.25	--	--	--	--	0.017	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12	06/19/01	<0.05	1.6	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	
MW-12	06/20/01	<0.06	1.7	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-12		Destroyed during construction activities											
MW-12R	02/14/02	<0.25	1.4	--	<0.5	--	0.014	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-12R	05/21/02	<0.25	2.5	--	<0.5	--	0.080	0.0013	<0.0005	0.00066	<0.005*	--	
MW-12R	08/28/02	<0.25	2.1	--	<0.5	--	0.028	0.0059	<0.0005	0.0015	<0.005*	--	
MW-12R	11/05/02	<0.25	1.3	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-12R	02/19/03	0.26	2.5	--	<0.5	--	0.19	0.0012	<0.001	<0.001	<0.005*	--	
MW-12R	06/10/03	0.41	1.3	--	<0.25	--	0.11	0.00055	<0.0005	<0.0005	<0.005*	--	
MW-12R	09/16/03	<0.25	0.67	--	<0.50	--	0.0021	<0.0005	<0.0005	<0.0005	0.013*	--	
MW-12R	11/19/03	0.42	<0.25	--	<0.50	--	0.26	<0.001	<0.001	<0.001	0.0078	--	
MW-12R	02/25/04	0.26	1.8	--	<0.50	--	0.099	0.00050	<0.0005	0.00076	0.010*	--	
MW-12R	05/12/04	0.56	0.74	--	<0.50	--	0.20	<0.001	<0.001	<0.001	<0.0050*	--	
MW-12R	08/26/04	0.35	0.50	--	<0.50	--	0.089	<0.001	<0.001	<0.001	<0.0050*	--	
MW-12R	12/15/04	<0.25	0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	03/09/05	<0.25	0.39	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	06/08/05	<0.25	0.39	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-12R	09/21/05	0.26	0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	03/14/06	<0.25	<0.25	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-12R	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	12/13/06	<0.25	0.27	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-12R	12/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-12R	06/20/07	<0.25	--	--	--	--	<0.0005	0.0010	<0.0005	<0.0005	<0.0050	--	
MW-12R	06/05/08	<0.25	0.78	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	06/01/09	<0.25	0.32	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	05/23/11	<0.25	0.41	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-12R	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	04/23/14	<0.25	0.49	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13	06/19/01	<0.05	1.3	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	
MW-13		Destroyed during construction activities											
MW-13R	02/14/02	<0.25	3.2	--	<0.5	--	0.056	<0.0005	<0.0005	0.00075	<0.005*	--	
MW-13R	05/21/02	<0.25	3.5	--	<0.5	--	0.0025	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-13R	08/28/02	<0.25	2.4	--	<0.5	--	<0.0005	0.0019	<0.0005	0.00070	<0.005*	--	
MW-13R	11/05/02	<0.25	2.0	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-13R	02/19/03	<0.25	1.7	--	<0.5	--	0.00078	0.0032	<0.0005	0.00083	<0.005*	--	
MW-13R	06/10/03	<0.25	0.76	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-13R	09/16/03	<0.25	1.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0078*	--	
MW-13R	11/19/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0066	--	
MW-13R	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	--	
MW-13R	05/12/04	<0.25	0.61	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	08/26/04	<0.25	0.49	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-13R	12/15/04	<0.25	0.91	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	03/09/05	<0.25	0.35	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	06/08/05	<0.25	0.49	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-13R	09/21/05	<0.25	0.39	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	03/14/06	<0.25	<0.25	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-13R	06/07/06	<0.25	<0.25	--	<0.50	--	<0.005	<0.005	<0.005	<0.005	<0.0050*	--	
MW-13R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	12/13/06	<0.25	0.33	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0077*	--	
MW-13R	12/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-13R	06/20/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-13R	Abandoned on 5/25/2012												
MW-14	02/13/02	2.5	37	--	<5.0	--	0.010	0.0085	0.18	0.22	--	--	
MW-14	05/21/02	2.9	23	--	1.0	--	0.0093	0.0057	0.18	0.15	--	--	
MW-14	08/29/02	2.9	28	--	<0.5	--	0.017	0.0073	0.21	0.14	--	--	
MW-14	11/05/02	2.0	28	--	0.91	--	0.060	0.0059	0.12	0.076	--	--	
MW-14	02/20/03	3.4	18	--	<0.5	--	0.056	0.0062	0.14	0.11	--	--	
MW-14	06/11/03	3.1	28	--	<0.5	--	0.059	0.0098	0.23	0.13	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-14	09/16/03	<1.0	15	--	<0.50	--	0.13	<0.005	0.019	0.022	--	--	
MW-14	11/20/03	<2.0	29	--	0.70	--	0.12	<0.01	0.020	0.031	--	--	
MW-14	02/24/04	2.4	21	--	<0.50	--	0.061	0.014	0.25	0.20	--	--	
MW-14	05/11/04	2.7	27	--	<0.50	--	0.053	0.0092	0.21	0.16	--	--	
MW-14	08/26/04	2.3	11	--	0.53	--	0.024	<0.0025	0.16	0.19	--	--	
MW-14	12/15/04	1.2	9.6	--	<0.50	--	0.0084	<0.005	0.010	0.0055	--	--	
MW-14	03/09/05	4.2	7.7	--	<0.50	--	0.0053	0.0094	0.18	0.099	--	--	
MW-14	06/08/05	3.1	8.8	--	<0.50	--	0.0043	0.0069	0.17	0.11	--	--	
MW-14	09/21/05	1.6	10	--	1.1	--	0.012	0.0048	0.077	0.068	--	--	
MW-14	12/14/05	3.1	2.0	--	<0.50	--	0.0059	0.0075	0.12	0.068	--	--	
MW-14	03/14/06	0.79	2.1	--	<0.50	--	<0.0025	<0.0025	0.023	0.030	--	--	
MW-14	06/07/06	0.84	3.0	--	<0.50	--	<0.0025	<0.0025	0.061	0.033	--	--	
MW-14	09/13/06	2.4	1.8	--	<0.50	--	<0.0025	0.0060	0.10	0.056	--	--	
MW-14	12/13/06	1.1	1.4	--	<0.50	--	<0.0025	<0.0025	0.044	0.029	--	--	
MW-14	03/27/07	1.3	--	--	--	--	0.0057	<0.0025	0.049	0.024	--	--	
MW-14	06/20/07	1.5	--	--	--	--	<0.0025	0.0039	0.087	0.046	--	--	
MW-14	09/24/07	2.5	--	--	--	--	0.0024	0.0077	0.15	0.13	--	--	
MW-14	12/11/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	03/04/08	0.43	--	--	--	--	<0.0015	<0.0015	0.019	0.0073	--	--	
MW-14	06/04/08	<0.30	--	--	--	--	<0.0015	<0.0015	<0.015	<0.015	--	--	
MW-14	09/08/08	2.5	--	--	--	--	0.0024	0.0070	0.17	0.075	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-14	12/05/08	<0.50	--	--	--	--	<0.0025	<0.0025	0.0047	0.0036	--	--	
MW-14	03/04/09	<0.25	--	--	--	--	0.0011	<0.0010	0.0011	0.0038	--	--	
MW-14	06/02/09	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	0.0018	--	--	
MW-14	09/21/09	0.56	--	--	--	--	<0.0025	<0.0025	0.044	0.013	--	--	
MW-14	11/17/09	<0.50	--	--	--	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-14	03/08/10	<0.25	--	--	--	--	0.0010	<0.0010	0.0010	0.0021	--	--	
MW-14	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	0.0011	0.0014	--	--	
MW-14	09/09/10	0.50	--	--	--	--	0.0013	0.0018	0.031	0.036	--	--	
MW-14	11/15/10	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-14	03/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	05/24/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	08/29/11	0.41	--	--	--	--	<0.0010	0.0011	0.019	0.026	--	--	
MW-14	12/01/11	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	0.0032	--	--	
MW-14	03/01/12	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-14	05/31/12	<0.25	--	--	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-14	08/25/12	<0.25	--	--	--	--	<0.00050	<0.00050	0.0028	0.0017	--	--	
MW-14	11/08/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.0041	--	--	
MW-14	02/28/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	04/09/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-14	07/30/13	<0.25	--	--	--	--	<0.0005	0.00058	0.011	0.0092	--	--	
MW-14	10/03/13	<0.25	--	--	--	--	<0.001	<0.001	0.0034	0.022	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-14	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-14	04/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	02/13/02	<0.25	<0.25	--	<0.5	--	0.0013	0.0037	<0.0005	0.0011	--	--	
MW-16	05/21/02	<0.25	<0.5	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	08/29/02	<0.25	<0.5	--	<0.5	--	<0.0005	0.0022	<0.0005	0.00069	--	--	
MW-16	11/05/02	<0.25	0.29	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	02/19/03	<0.25	<0.25	--	<0.5	--	<0.0005	0.0018	<0.0005	<0.0005	--	--	
MW-16	06/10/03	<0.25	<0.25	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/16/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	11/19/03	<0.25	<0.25	--	<0.50	--	<0.0005	0.0013	<0.0005	0.00062	--	--	
MW-16	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	08/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	12/15/04	<0.25	<0.25	--	<0.50	--	0.029	<0.0005	<0.0005	<0.0005	--	--	
MW-16	03/10/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/07/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/20/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	12/13/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	03/15/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/08/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	09/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	0.00062	0.0012	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-16	12/12/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/19/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/04/08	0.39	0.43	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-16	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.0012	--	--	
MW-16	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-17	05/23/11	0.30	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	02/13/02	7.6	0.77	--	<0.5	--	1.8	0.067	0.29	0.34	--	--	
MW-18	05/21/02	1.2	0.30	--	<0.5	--	0.25	0.016	0.068	0.068	--	--	
MW-18	08/29/02	1.6	<0.5	--	<0.5	--	0.45	0.014	0.032	0.044	--	--	
MW-18	11/05/02	1.1	<0.25	--	<0.5	--	<0.3	0.010	0.011	0.031	--	--	
MW-18	02/19/03	<0.25	<0.25	--	<0.5	--	0.0035	0.0047	<0.0005	0.0016	--	--	
MW-18	06/10/03	<0.25	<0.25	--	<0.25	--	0.022	0.0016	<0.0005	0.0040	--	--	
MW-18	09/16/03	<0.25	<0.50	--	<0.50	--	0.036	0.0019	<0.0005	0.0075	--	--	
MW-18	11/19/03	<0.25	<0.25	--	<0.50	--	0.0042	<0.0005	<0.0005	0.0015	--	--	
MW-18	02/25/04	0.58	<0.25	--	<0.50	--	0.11	0.0048	0.00087	0.026	--	--	
MW-18	05/11/04	1.1	<0.25	--	<0.50	--	0.25	0.0073	0.0016	0.037	--	--	
MW-18	08/26/04	<0.25	<0.25	--	<0.50	--	0.0030	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-18	12/15/04	0.84	<0.25	--	<0.50	--	0.14	0.0060	0.0019	0.029	--	--	
MW-18	03/10/05	0.84	<0.25	--	<0.50	--	0.25	0.0049	0.0020	0.021	--	--	
MW-18	06/07/05	0.68	<0.25	--	<0.50	--	0.17	0.0039	0.0019	0.0098	--	--	
MW-18	09/20/05	4.0	<0.25	--	<0.50	--	0.74	0.021	0.0091	0.090	--	--	
MW-18	12/13/05	2.3	<0.25	--	<0.50	--	0.45	0.015	0.0067	0.033	--	--	
MW-18	03/15/06	4.9	<0.25	--	<0.50	--	1.2	0.035	0.025	0.12	--	--	
MW-18	06/08/06	1.2	<0.25	--	<0.50	--	0.15	0.011	0.011	0.034	--	--	
MW-18	09/12/06	0.35	<0.25	--	<0.50	--	0.023	0.0021	0.0022	0.0047	--	--	
MW-18	12/12/06	0.28	<0.25	--	<0.50	--	0.023	0.0018	0.0019	0.0060	--	--	
MW-18	03/27/07	0.78	--	--	--	--	0.022	0.0029	0.0051	0.012	--	--	
MW-18	06/19/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/24/07	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/11/07	<0.25	--	--	--	--	0.011	0.00075	<0.0005	0.0032	--	--	
MW-18	03/04/08	0.29	--	--	--	--	0.0090	0.0016	0.00050	0.00088	--	--	
MW-18	06/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/08/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/04/08	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/04/09	<0.25	--	--	--	--	0.00080	<0.0005	<0.0005	<0.0005	--	--	
MW-18	06/03/09	<0.25	--	--	--	--	0.00061	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/22/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/17/09	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-18	03/09/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.0011	--	--	
MW-18	06/08/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	09/10/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/16/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	05/23/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	08/30/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	12/02/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	--	
MW-18	03/02/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	05/31/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	11/08/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	02/28/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	04/09/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	07/29/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	10/02/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	04/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-19	02/13/02	29	6.8	--	<2.5	--	0.057	0.73	0.58	6.5	--	--	
MW-19	05/21/02	30	7.7	--	<0.5	--	0.049	0.65	0.53	6.5	--	--	
MW-19	08/29/02	13	11	--	<0.5	--	0.14	0.29	0.20	2.1	--	--	
MW-19	11/05/02	8.2	3.0	--	<0.5	--	0.21	0.37	0.16	1.7	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-19	02/20/03	38	19	--	<0.5	--	0.091	1.2	0.80	8.0	--	--	
MW-19	06/11/03	32	15	--	<1.0	--	0.042	0.38	0.80	6.7	--	--	
MW-19	09/16/03	4.2	12	--	<0.50	--	0.19	0.043	0.19	1.1	--	--	
MW-19	11/20/03	22	10	--	<0.50	--	0.11	0.67	0.75	6.1	--	--	
MW-19	02/24/04	19	14	--	<0.50	--	<0.015	0.49	0.63	4.7	--	--	
MW-19	05/11/04	27	13	--	<0.50	--	<0.025	0.22	0.87	7.2	--	--	
MW-19	08/26/04	22	0.72	--	<0.50	--	0.042	0.26	0.64	4.6	--	--	
MW-19	12/15/04	15	7.6	--	<0.50	--	0.039	0.12	0.37	2.7	--	--	
MW-19	03/09/05	27	9.1	--	<0.50	--	0.073	0.18	0.56	3.4	--	--	
MW-19	06/08/05	17	6.3	--	<0.50	--	0.071	0.17	0.61	2.8	--	--	
MW-19	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	12/14/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	03/14/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	06/07/06	14	1.4	--	<0.50	--	<0.010	0.043	0.29	1.4	--	--	
MW-19	09/13/06	11	0.50	--	<0.50	--	0.032	0.047	0.41	1.1	--	--	
MW-19	12/13/06	8.0	1.4	--	<0.50	--	0.016	0.052	0.30	1.4	--	--	
MW-19	03/27/07	13	--	--	--	--	<0.010	0.047	0.35	1.8	--	--	
MW-19	06/20/07	12	--	--	--	--	0.050	0.092	0.29	1.2	--	--	
MW-19	09/24/07	10	--	--	--	--	0.13	0.11	0.42	1.3	--	--	
MW-19	12/11/07	12	--	--	--	--	0.11	0.14	0.40	1.9	--	--	
MW-19	03/04/08	17	--	--	--	--	0.15	0.28	0.52	2.4	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-19	06/04/08	11	--	--	--	--	0.070	0.023	0.45	1.0	--	--	
MW-19	09/08/08	5.3	--	--	--	--	0.078	0.0063	0.12	0.29	--	--	
MW-19	12/05/08	7.8	--	--	--	--	0.071	0.047	0.38	0.73	--	--	
MW-19	03/04/09	9.4	--	--	--	--	0.076	0.13	0.43	1.4	--	--	
MW-19	06/02/09	13	--	--	--	--	0.071	0.13	0.43	1.6	--	--	
MW-19	09/21/09	8.4	--	--	--	--	0.052	0.0097	0.32	0.29	--	--	
MW-19	11/17/09	7.4	--	--	--	--	0.023	0.049	0.34	1.2	--	--	
MW-19	03/08/10	10	--	--	--	--	0.017	0.11	0.46	1.8	--	--	
MW-19	06/08/10	12	--	--	--	--	0.042	0.17	0.55	1.6	--	--	
MW-19	09/09/10	7.3	0.71	--	<0.50	--	0.039	0.020	0.42	0.18	--	--	
MW-19	11/15/10	4.5	--	--	--	--	0.039	0.18	0.44	0.13	--	--	
MW-19	03/01/11	9.6	--	--	--	--	0.039	0.13	0.34	0.88	--	--	
MW-19	05/24/11	7.4	--	--	--	--	0.0028	0.011	0.17	0.38	--	--	
MW-19	08/29/11	7.0	--	--	--	--	0.012	0.015	0.15	0.066	--	--	
MW-19	12/01/11	7.5	--	--	--	--	0.059	0.034	0.22	0.30	--	--	
MW-19	03/01/12	6.4	--	--	--	--	0.15	0.064	0.34	0.44	--	--	
MW-19	05/31/12	8.3	--	--	--	--	0.079	0.073	0.48	0.81	--	--	
MW-19	08/25/12	5.2	--	--	--	--	0.054	0.0076	0.270	0.089	--	--	
MW-19	11/08/12	4.7	--	--	--	--	0.042	0.0096	0.28	0.18	--	--	
MW-19	02/28/13	8.1	--	--	--	--	0.045	0.13	0.44	0.77	--	--	
MW-19	04/09/13	6.9	--	--	--	--	0.029	0.15	0.32	0.57	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-19	06/21/13	2.8	1.1 K	--	--	--	0.019	0.017	0.31	0.081	--	--	Baseline monitoring event
MW-19	07/30/13	4.4	--	--	--	--	0.0086	0.0051	0.16	0.013	--	--	
MW-19	10/03/13	3.2	--	--	--	--	0.0076	0.0023	0.046	0.002	--	--	
MW-19	01/22/14	2.2	--	--	--	--	0.021	0.00065	0.029	<0.0005	--	--	
MW-19	04/21/14	2.1	--	--	--	--	0.0066	0.0039	0.16	0.0064	--	--	
MW-20	02/13/02	<0.25	0.64	--	<0.5	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-20	05/20/02	<0.25	1.3	--	<0.5	--	0.018	0.0012	0.0048	0.014	--	--	
MW-20	08/29/02	0.60	1.1	--	<0.5	--	0.057	0.0065	0.021	0.084	--	--	
MW-20	11/06/02	<0.25	0.81	--	<0.5	--	0.0023	0.00053	<0.0005	<0.0005	--	--	
MW-20	02/19/03	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/11/03	<0.25	0.68	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	09/17/03	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	11/20/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00072	--	--	
MW-20	02/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	05/11/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	08/26/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	12/15/04	<0.25	0.30	--	<0.50	--	0.0013	<0.0005	<0.0005	<0.0005	--	--	
MW-20	03/09/05	<0.25	<0.25	--	<0.50	--	0.00074	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/08/05	<0.25	0.55	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	09/21/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-20	03/14/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/20/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/09/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	0.00054	0.0028	--	--	
MW-20	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/10/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	06/11/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	09/17/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	11/20/03	0.97	19	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	02/26/04	2.3	35	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	05/11/04	1.2	29	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	08/26/04	4.3	33	--	<0.50	--	<0.001	<0.001	0.0013	0.0014	--	--	
MW-21	12/15/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	2.4	140	--	<5.0	--	<0.0015	<0.0015	0.0016	<0.0015	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-21	06/08/05	1.8	31	--	0.50	--	<0.002	<0.002	0.0026	<0.002	--	--	
MW-21	09/21/05	1.7	46	--	3.3	--	<0.0010	<0.0010	0.0013	<0.0010	--	--	
MW-21	12/14/05	1.0	6.1	--	0.54	--	<0.002	<0.002	0.0027	<0.002	--	--	
MW-21	03/14/06	<0.25	33	--	3.1	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/07/06	0.77	18	--	1.2	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	09/13/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	12/13/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/27/07	<0.50	9.6	--	0.75	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/20/07	<0.50	8.5	--	0.66	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	09/24/07	0.36	4.3	--	0.52	--	<0.0015	<0.0015	0.0018	<0.0015	--	--	
MW-21	12/11/07	<0.25	34	--	2.5	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	03/04/08	<0.50	12	--	0.92	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-21	06/04/08	<0.30	4.7	--	<0.50	--	<0.0015	<0.0015	<0.015	<0.0015	--	--	
MW-21	09/08/08	0.98	3.8	--	<0.50	--	<0.0015	0.0015	0.0049	0.0028	--	--	
MW-21	12/05/08	<1.0	4.8	--	<0.50	--	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-21	03/04/09	<0.50	6.4	--	0.89	--	<0.0025	<0.0025	<0.0025	0.0034	--	--	
MW-21	06/02/09	0.70	2.9	--	0.68	--	<0.0010	<0.0010	0.0016	<0.0010	--	--	
MW-21	09/22/09	1.7	4.7	--	<0.50	--	<0.0025	<0.0025	0.0029	<0.0025	--	--	
MW-21	11/17/09	<0.25	0.87	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/09/10	<0.25	1.1	--	<0.50	--	0.0014	<0.0010	<0.0010	<0.0005	--	--	
MW-21	09/10/10	0.60	3.7	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-21	11/15/10	<0.25	0.49	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/01/11	<0.25	1.2	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	05/23/11	<0.25	1.2	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	08/29/11	0.35	3.7	--	0.98	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	12/01/11	<0.25	1.7	--	--	--	<0.0010	<0.0010	<0.0010	<0.0020	--	--	
MW-21	03/01/12	<0.25	0.51	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	05/31/12	<0.25	6.1	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	08/25/12	0.56	1.8	--	0.59	--	<0.0025 o	<0.0025 o	<0.0025 o	<0.0025 o	--	--	
MW-21	11/08/12	<0.25	--	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-21	02/28/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	04/10/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	07/30/13	0.32	2.9	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	10/03/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	01/22/14	<0.25	2.3	--	0.77	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	04/24/14	<0.25	0.74	0.28	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	02/13/02	0.96	9.2	--	<0.5	--	0.012	0.0053	0.017	0.0097	--	--	
MW-22	05/21/02	1.1	7.7	--	<0.5	--	0.16	0.049	0.023	0.030	--	--	
MW-22	08/29/02	1.4	2.4	--	<0.5	--	0.50	0.0093	0.044	0.0066	--	--	
MW-22	11/05/02	0.49	1.7	--	<0.5	--	0.14	0.0031	0.025	<0.001	--	--	
MW-22	02/19/03	<0.25	9.1	--	<0.5	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/10/03	<0.25	7.4	--	0.87a	--	<0.001	<0.001	<0.001	<0.001	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-22	09/16/03	<0.25	2.7	--	<0.50	--	0.0018	<0.0005	<0.0005	<0.0005	--	--	
MW-22	11/19/03	<0.50	8.4	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-22	02/25/04	<0.25	6.4	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	05/11/04	<0.25	2.0	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	08/25/04	<0.25	0.61	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	12/14/04	<0.25	1.1	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	03/10/05	<0.25	2.2	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/07/05	<0.25	3.0	--	<0.50	--	0.0049	<0.001	<0.001	<0.001	--	--	
MW-22	09/20/05	0.40	2.9	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	12/13/05	<0.25	0.71	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	03/15/06	<0.25	2.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/08/06	<0.25	0.89	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	09/12/06	<0.25	0.45	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	12/12/06	<0.25	1.4	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	06/19/07	<0.25	1.1	--	<0.50	--	0.0094	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/04/08	<0.25	0.77	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/03/09	<0.25	1.8	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-22	06/09/10	<0.25	1.2	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.0011	--	--	
MW-22	05/23/11	<0.25	2.7	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-22	05/31/12	<1.0	2.1	--	0.73	--	<0.0050	<0.0050	<0.0050	<0.0050	--	--	
MW-22	04/09/13	<0.25	--	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-22	04/22/14	<0.25	2.9	0.38	<0.50	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
MW-23	11/19/03	5.3	1.4	--	<0.50	--	0.87	0.016	0.098	0.23	--	--	
MW-23	02/25/04	3.3	0.85	--	<0.50	--	0.91	0.011	0.046	0.030	0.0052*	--	
MW-23	05/12/04	4.2	1.3	--	<0.50	--	1.1	0.013	0.046	0.048	<0.0050*	--	
MW-23	08/26/04	5.3	0.72	--	<0.50	--	1.1	0.023	0.20	0.17	0.014*	--	
MW-23	12/14/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	03/08/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	06/07/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	12/13/05	6.3	<0.25	--	<0.50	--	1.3	0.014	0.048	0.044	<0.0050*	--	
MW-23	03/15/06	7.0	0.28	--	<0.50	--	1.4	0.015	0.19	0.21	<0.0050*	--	
MW-23	06/08/06	5.2	1.3	--	<0.50	--	1.4	0.014	0.11	0.11	<0.0050*	--	
MW-23	09/12/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-23	12/12/06	8.1	<0.25	--	<0.50	--	1.8	0.020	0.11	0.16	<0.0050*	--	
MW-23	03/27/07	8.4	--	--	--	--	1.8	0.019	0.16	0.16	--	--	
MW-23	06/19/07	8.7	--	--	--	--	1.8	0.021	0.23	0.23	<0.0050	--	
MW-23	09/25/07	6.9	--	--	--	--	1.5	0.021	0.085	0.11	--	--	
MW-23	12/11/07	9.1	--	--	--	--	1.3	0.022	0.053	0.097	--	--	
MW-23	03/04/08	7.8	--	--	--	--	1.5	0.018	0.089	0.10	--	--	
MW-23	06/04/08	19	--	--	--	--	2.4	0.061	0.59	3.2	<0.0050	--	
MW-23	09/08/08	6.4	--	--	--	--	0.79	0.014	0.070	0.038	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-23	12/04/08	5.4	--	--	--	--	0.52	0.0088	0.091	0.063	--	--	
MW-23	03/04/09	4.8	--	--	--	--	0.81	0.012	0.27	0.11	--	--	
MW-23	06/02/09	5.7	--	--	--	--	0.21	0.0061	0.17	0.054	<0.0050	--	
MW-23	09/21/09	5.9	--	--	--	--	0.64	0.013	0.26	0.025	--	--	
MW-23	11/16/09	6.2	--	--	--	--	0.80	0.017	0.45	0.036	--	--	
MW-23	03/08/10	4.8	--	--	--	--	0.25	0.0077	0.19	0.031	--	--	
MW-23	06/08/10	5.5	--	--	--	--	0.39	0.0082	0.17	0.025	<0.0050	--	
MW-23	09/10/10	4.9	--	--	--	--	0.21	0.0044	0.11	0.019	--	--	
MW-23	11/16/10	4.5	--	--	--	--	0.37	0.010	0.23	0.020	--	--	
MW-23	03/02/11	5.0	--	--	--	--	0.21	0.0060	0.15	0.023	--	--	
MW-23	05/24/11	6.0	--	--	--	--	0.32	0.0053	0.16	0.027	<0.0050	--	
MW-23	08/30/11	6.0	--	--	--	--	0.15	0.0030	0.093	0.015	--	--	
MW-23	12/02/11	5.3	--	--	--	--	0.29	0.0076	0.13	0.017	--	--	
MW-23	03/02/12	4.0	--	--	--	--	0.12	0.0029	0.13	0.027	--	--	
MW-23	05/30/12	4.5	--	--	--	--	0.087	<0.0025	0.14	0.022	<0.0050	--	
MW-23	08/25/12	2.6	--	--	--	--	0.050	<0.0025	0.059	0.0046	--	--	
MW-23	11/08/12	2.3	--	--	--	--	0.021	<0.001	0.065	0.0038	--	--	
MW-23	02/28/13	2.6	--	--	--	--	0.034	<0.0025	0.16	0.01	--	--	
MW-23	04/10/13	0.54	--	--	--	--	0.015	<0.001	0.015	0.0013	<0.0050	--	
MW-23	07/29/13	1.7	--	--	--	--	0.0097	<0.001	0.025	0.0011	--	--	
MW-23	10/02/13	0.39	--	--	--	--	0.015	<0.001	0.0019	<0.001	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-23	01/21/14	0.27	--	--	--	--	0.011	<0.001	<0.001	<0.001	--	--	
MW-23	04/23/14	1.7	--	--	--	--	0.039	<0.001	<0.001	0.0026	<0.0050	--	
MW-24	11/19/03	34	6.4	--	0.54	--	2.8	0.54	1.4	6.0	--	--	
MW-24	02/25/04	26	3.0	--	<0.50	--	4.3	0.085	1.0	3.3	<0.0050*	--	
MW-24	05/12/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	08/26/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/14/04	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	03/08/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	06/07/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/13/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/14/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	03/15/06	26	0.34	--	<0.50	--	4.4	0.064	0.88	4.2	0.0069	--	
MW-24	06/08/06	21	<0.25	--	<0.50	--	1.5	0.039	0.86	4.9	0.0068	--	
MW-24	09/12/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/12/06	20	1.1	--	<0.50	--	1.5	0.037	0.69	3.2	0.0078*	--	
MW-24	03/27/07	27	--	--	--	--	3.4	0.062	1.3	4.6	--	--	
MW-24	06/19/07	31	--	--	--	--	3.0	0.063	1.0	5.7	0.022	--	
MW-24	09/25/07	16	--	--	--	--	2.0	0.036	0.79	2.3	--	--	
MW-24	12/11/07	40	--	--	--	--	1.5	0.066	1.8	9.2	--	--	
MW-24	03/04/08	41	--	--	--	--	1.8	0.052	1.4	7.7	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-24	06/04/08	5.5	--	--	--	--	1.2	0.013	0.027	0.027	<0.0050	--	
MW-24	09/08/08	46	--	--	--	--	3.5	0.081	1.9	7.3	--	--	
MW-24	12/05/08	32	--	--	--	--	2.4	0.061	1.6	4.3	--	--	
MW-24	03/04/09	26	--	--	--	--	2.3	0.056	1.5	5.3	--	--	
MW-24	06/02/09	37	--	--	--	--	2.5	0.064	1.7	4.4	0.0062	--	
MW-24	09/21/09	28	--	--	--	--	1.6	0.042	1.3	4.2	--	--	
MW-24	11/16/09	20	--	--	--	--	1.1	0.027	0.94	2.7	--	--	
MW-24	03/08/10	31	--	--	--	--	2.5	0.058	1.6	5.1	--	--	
MW-24	06/08/10	37	--	--	--	--	3.1	0.084	2.2	7.1	0.019	--	
MW-24	09/10/10	28	--	--	--	--	2.4	0.066	1.8	4.3	--	--	
MW-24	11/16/10	26	--	--	--	--	1.3	0.051	1.5	5.8	--	--	
MW-24	03/02/11	26	--	--	--	--	2.2	0.057	1.3	4.8	--	--	
MW-24	05/24/11	11	--	--	--	--	1.2	0.028	0.51	1.3	<0.0050	--	
MW-24	08/30/11	30	--	--	--	--	2.0	0.057	1.4	4.2	--	--	
MW-24	12/02/11	18	--	--	--	--	0.37	0.016	0.42	2.56	--	--	
MW-24	03/02/12	8.7	--	--	--	--	0.53	0.014	0.25	1.1	--	--	
MW-24	05/30/12	7.3	--	--	--	--	0.39	0.013	0.30	0.88	<0.0050	--	
MW-24	08/25/12	11	--	--	--	--	0.560	<0.020 V	0.41	1.4	--	--	
MW-24 (DUP)	08/25/12	8.0	--	--	--	--	0.41	<0.015 V	0.3	1.1	--	--	Duplicate of MW-24
MW-24	11/08/12	20	--	--	--	--	1.7	0.057	1.4	4.1	--	--	
MW-24	11/08/12	19	--	--	--	--	1.7	0.057	1.4	4.2	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-24	02/28/13	6.6	--	--	--	--	0.29	<0.01	0.39	0.84	--	--	
MW-24	02/28/13	9.0	--	--	--	--	0.48	0.016	0.59	1.3	--	--	
MW-24	04/10/13	20	--	--	--	--	1.1	0.048	0.22	3.8	--	--	
MW-24	04/10/13	23	--	--	--	--	1.2	0.061	1.7	4.1	0.010	--	
MW-24	07/29/13	27	--	--	--	--	1.1	0.059	2.1	4.7	--	--	
MW-24	10/02/13	33	--	--	--	--	1.1	0.072	2.6	6.3	--	--	
MW-24 (DUP)	10/02/13	29	--	--	--	--	1.4	0.076	2.5	5.6	--	--	Duplicate of MW-24
MW-24	01/22/14	3.1	--	--	--	--	0.088	0.0034	0.18	0.33	--	--	
MW-24 (DUP)	01/22/14	2.2	--	--	--	--	0.056	0.0026	0.12	0.2	--	--	Duplicate of MW-24
MW-24	04/23/14	23	--	--	--	--	1	0.051	1.7	3.6	0.0085	--	
MW-24 (DUP)	04/23/14	24	--	--	--	--	1	0.048	1.7	3.7	--	--	Duplicate of MW-24
MW-25	11/20/03	<0.25	1.3	--	<0.50	--	0.0061	<0.0005	<0.0005	<0.0005	--	--	
MW-25	02/26/04	0.38	8.9	--	<0.50	--	0.0011	<0.0005	0.0027	<0.0005	0.012*	--	
MW-25	05/12/04	<0.25	1.6	--	<0.50	--	<0.0005	<0.0005	0.0034	<0.0005	<0.0050*	--	
MW-25	08/26/04	<0.25	0.27	--	<0.50	--	0.013	<0.0005	<0.0005	<0.0005	0.034*a	--	
MW-25	12/14/04	<0.25	1.4	--	<0.50	--	0.0035	<0.001	<0.001	<0.001	<0.0050*	--	
MW-25	03/10/05	0.31	3.7	--	<0.50	--	0.0014	<0.0005	0.00064	<0.0005	<0.0050*	--	
MW-25	06/07/05	0.40	3.2	--	<0.50	--	<0.001	<0.001	0.0014	<0.001	<0.0050*	--	
MW-25	09/20/05	0.30	1.4	--	<0.50	--	0.0016	<0.0005	<0.0005	<0.0005	0.059*a	--	
MW-25	12/13/05	<0.25	1.2	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
MW-25	03/15/06	<0.25	1.0	--	<0.50	--	0.0019	<0.001	<0.001	<0.001	<0.0050*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-25	06/08/06	<0.25	1.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-25	09/12/06	<0.25	0.31	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-25	12/12/06	<0.25	0.86	--	<0.50	--	0.0052	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-25	06/19/07	<0.50	1.6	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-25	06/04/08	<0.25	0.26	--	<0.50	--	0.0020	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	06/03/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	06/09/10	<0.25	0.32	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050	--	
MW-25	05/25/11	<0.50	1.4	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-25	06/01/12	<0.25	<0.25	--	<0.50	--	0.0011	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-25	04/10/13	<0.25	--	--	<0.50	--	0.0013	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	04/23/14	<0.25	0.65	0.25	<0.50	<0.50	0.0014	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02	12/20/00	0.078	<0.25	--	<0.5	--	0.0010	<0.001	<0.001	<0.003	0.015**	--	
SH-02		Destroyed during construction activities											
SH-02R	02/13/02	<0.25	0.56	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
SH-02R	05/21/02	<0.25	2.4	--	<0.5	--	0.037	<0.0005	<0.0005	<0.0005	0.005*	--	
SH-02R	08/28/02	<0.25	4.3	--	<0.5	--	0.087	0.0038	0.00061	0.0023	0.006*	--	
SH-02R	11/05/02	<0.25	1.1	--	<0.5	--	0.016	<0.0005	<0.0005	<0.0005	0.005*	--	
SH-02R	02/19/03	<0.25	<0.5	--	<0.5	--	<0.0005	0.00086	<0.0005	<0.0005	<0.005*	--	
SH-02R	06/10/03	<0.25	0.97	--	<0.25	--	<0.0005	0.00051	<0.0005	<0.0005	0.0059*	--	
SH-02R	09/16/03	<0.25	3.0	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.010*	--	
SH-02R	11/19/03	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
SH-02R	02/25/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	05/12/04	<0.25	0.74	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	08/26/04	<0.25	0.58	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	12/15/04	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	03/09/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	06/08/05	<0.25	0.31	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	09/21/05	<0.25	0.58	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	12/14/05	<0.25	0.30	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0078*	--	
SH-02R	03/14/06	<0.25	0.30	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0072*	--	
SH-02R	06/07/06	<0.25	0.59	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	--	
SH-02R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	--	
SH-02R	12/13/06	<0.25	0.49	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-02R	06/20/07	<0.25	0.77	--	<0.50	--	<0.0010	<0.0010	<0.0010	0.0016	<0.0050	--	
SH-02R	06/05/08	<0.25	0.28	--	<0.50	--	<0.0005	<0.0005	<0.0005	0.00073	<0.0050	--	
SH-02R	06/01/09	<0.25	0.37	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	05/23/11	<0.25	0.29	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	
SH-02R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	04/23/14	<0.25	0.28	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05	12/20/00	<0.05	1.0	--	<0.5	--	<0.001	<0.001	<0.003	<0.001	0.017**	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
SH-05R	05/21/02	0.71	11	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
SH-05R	08/28/02	0.77	10	--	<0.5	--	<0.0005	0.0015	<0.0005	<0.0005	0.006*	--	
SH-05R	11/05/02	1.4	7.1	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	0.008*	--	
SH-05R	02/19/03	0.80	6.8	--	<0.5	--	<0.001	0.0016	<0.001	<0.001	<0.005*	--	
SH-05R	06/10/03	1.1	45	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	0.04*	--	
SH-05R	09/16/03	<0.25	23	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.074*	--	
SH-05R	11/19/03	0.62	19	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.075*	--	
SH-05R	02/25/04	<0.25	5.3	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	05/12/04	0.43	4.3	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	08/26/04	0.63	3.0	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	12/15/04	0.30	10	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0056*	--	
SH-05R	03/09/05	0.78	4.3	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	06/08/05	0.32	4.0	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	09/21/05	0.61	2.8	--	1.0	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	12/14/05	0.78	1.3	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	03/14/06	<0.25	1.4	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0074*	--	
SH-05R	06/07/06	<0.25	1.4	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050*	--	
SH-05R	09/13/06	0.34	0.56	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
SH-05R	12/13/06	<0.50	1.9	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050*	--	
SH-05R	06/20/07	0.59	1.8	--	<0.50	--	<0.0005	0.00058	<0.0005	<0.0005	<0.0050	--	
SH-05R	06/05/08	<0.25	1.7	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
SH-05R	06/01/09	0.36	0.99	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	06/08/10	<0.25	0.28	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-05R	05/23/11	<0.25	1.4	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-07R	02/13/02	<0.25	1.2	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	0.035*	--	
MW-07R	05/21/02	<0.25	2.1	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	0.005*	--	
MW-07R	08/28/02	<0.25	2.4	--	<0.5	--	<0.0005	0.0028	<0.0005	0.0012	0.006*	--	
MW-07R	11/05/02	<0.25	3.7	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-07R	02/19/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-07R	06/10/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-07R	09/16/03	<0.25	1.9	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.045*	--	
MW-07R	11/19/03	<0.25	2.1	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.020*	--	
MW-07R	02/25/04	<0.25	<0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	05/12/04	<0.25	0.48	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	08/26/04	<0.25	0.42	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-07R	12/15/04	<0.25	0.85	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0076*	--	
MW-07R	03/09/05	<0.25	0.54	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	06/08/05	<0.25	0.46	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	09/21/05	<0.25	0.70	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	12/14/05	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	03/14/06	<0.25	0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	06/07/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-07R	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0065	--	
MW-07R	12/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	--	
MW-07R	06/20/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/05/08	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/01/09	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/08/10	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	05/23/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	06/01/12	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	04/09/13	<0.25	--	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-07R	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
TMW-B1	10/29/09	5.7	<0.25	--	<0.50	--	0.12	0.0070	0.058	0.15	--	--	
TMW-B1	05/25/11	9.1	--	--	--	--	0.024	<0.0050	0.24	0.56	--	--	
TMW-B1	12/02/11	6.6	--	--	--	--	0.091	<0.0050	0.15	0.26	--	--	
TMW-B1	03/01/12	8.0	--	--	--	--	0.079	<0.0025	0.28	0.55	--	--	
TMW-B1	11/08/12	3.7	--	--	--	--	0.16	0.01	0.019	0.036	--	--	
TMW-B1	02/28/13	14	--	--	--	--	0.026	<0.01	0.5	0.87	--	--	
TMW-B1	10/02/13	5.8	--	--	--	--	0.039	<0.005	0.16	0.24	--	--	
TMW-1	06/21/13	<0.25	<0.25	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	Baseline monitoring event
TMW-1	07/30/13	<0.25	--	--	--	--	--	--	--	--	--	--	
TMW-1	10/03/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
TMW-1	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-1	04/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-2	06/21/13	0.25	0.28	--	--	--	0.0075	0.00097	<0.0005	0.00068	--	--	Baseline monitoring event
TMW-2	07/30/13	0.26	--	--	--	--	--	--	--	--	--	--	
TMW-2	10/03/13	0.50	--	--	--	--	0.013	0.00074	<0.0005	0.0024	--	--	
TMW-2	01/22/14	0.28	--	--	--	--	0.011	<0.0005	<0.0005	<0.0005	--	--	
TMW-2	04/21/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
TMW-3	06/24/13	0.86	0.85	--	--	--	<0.0005	0.00052	<0.0005	0.00087	--	--	Baseline monitoring event
TMW-3	07/30/13	0.98	--	--	--	--	--	--	--	--	--	--	
TMW-3	10/03/13	0.92	--	--	--	--	0.00057	0.0018	0.0076	0.0072	--	--	
TMW-3	01/22/14	0.75	--	--	--	--	<0.001	0.0022	<0.001	<0.001	--	--	
TMW-3	04/24/14	0.51	--	--	--	--	<0.0005	0.0046	0.0011	<0.0005	--	--	
TMW-4	06/24/13	4.9	2.5 Z	--	--	--	0.17	0.084	0.23	0.95	--	--	Baseline monitoring event
TMW-4	07/30/13	5.1	--	--	--	--	--	--	--	--	--	--	
TMW-4	10/03/13	4.7	--	--	--	--	0.13	0.12	0.29	1.3	--	--	
TMW-4	01/22/14	6.0	--	--	--	--	0.21	0.07	0.4	0.99	--	--	
TMW-4	04/24/14	4.0	--	--	--	--	0.16	0.044	0.39	0.84	--	--	
TMW-5	06/21/13	1.3	0.65 K	--	--	--	0.1	0.0097	0.022	0.02	--	--	Baseline monitoring event

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
TMW-5	07/30/13	4.3	--	--	--	--	--	--	--	--	--	--	
TMW-5	10/03/13	1.9	--	--	--	--	0.044	0.0063	0.0038	0.0088	--	--	
TMW-5	01/22/14	1.9	--	--	--	--	0.0039	0.0031	0.0012	0.0023	--	--	
TMW-5	04/24/14	1.4	--	--	--	--	<0.0015	0.0026	0.0017	0.0021	--	--	
TMW-6	06/24/13	4.9	1.8 Z	--	--	--	0.067	0.0099	0.15	0.55	--	--	Baseline monitoring event
TMW-6	07/30/13	7.8	--	--	--	--	--	--	--	--	--	--	
TMW-6	10/03/13	5.4	--	--	--	--	0.028	0.01	0.18	0.42	--	--	
TMW-6	01/22/14	7.0	--	--	--	--	0.06	0.01	0.28	0.53	--	--	
TMW-6	04/24/14	5.1	--	--	--	--	0.015	0.0036	0.19	0.37	--	--	

Table 2

Groundwater Analytical Results

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Diesel, SGC mg/l	TPH-Oil mg/l	TPH-Oil, SGC mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Lead Dissolved mg/l	Comments
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		

Notes:

< = Denotes compound was not detected at designated detection limit.

Bold = Concentration detected above the laboratory reporting limit.

mg/l = Milligrams per liter (parts per million)

-- = Not analyzed for this parameter

* = Also tested for Dissolved Lead (EPA-200.8), results are below detection limit of 0.0050 ppm.

*a = Also tested for Dissolved Lead (EPA-200.8), results are at or above detection limit of 0.0050 ppm.

** = Also tested for Dissolved Lead (EPA-7421), results are below detection limit of 0.004 ppm.

*** = Also tested for Dissolved Lead (EPA-SW6020), results are below detection limit of 0.0050 ppm.

a = Insulating oil range hydrocarbons were reported for MW-22 at concentration of 0.87 ppm.

o = Reporting Limits were increase due to sample foaming.

V = Reporting Limts were increased due to high concentration of target analytes.

SGC = A silica gel wash as performed on the solvent extract before analysis. Silica gell cleanup run for samples with DRO detections above the method reporting limit.

TPH as gasoline - Analysis by Washington Method WTPH-G prior to 5/20/98; analysis by Northwest Method NWTPH-Gx from 5/20/98 through present.

TPH as diesel and oil - Analysis by Washington Method WTPH-D+ extended prior to 5/20/98; analysis by Northwest Method NWTPH-Dx from 5/20/98 through present.

BTEX Compounds - Analysis by EPA Method 8020 prior to 5/20/98; analysis by EPA Method 8260B from 5/20/98 through present.

Table 3

Groundwater Natural Attenuation Parameters

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-5	03/27/07	0.80	--	--	--	--	--	--	--	
A-5	09/24/07	2.70	--	--	--	--	--	--	--	
A-5	12/11/07	1.46	--	--	--	--	--	--	--	
A-5	03/04/08	0.10	--	--	--	--	--	--	--	
A-5	06/03/08	1.90	--	--	--	--	--	--	--	
A-5	09/08/08	1.13	--	--	--	--	--	--	--	
A-5	12/05/08	0.41	--	--	--	--	--	--	--	
A-5	03/04/09	0.41	--	--	--	--	--	--	--	
A-5	06/02/09	0.61	--	--	--	--	--	--	--	
A-5	09/22/09	0.69	--	--	--	--	--	--	--	
A-5	11/17/09	0.24	--	--	--	--	--	--	--	
A-5	03/08/10	0.61	--	--	--	--	--	--	--	
A-5	06/09/10	0.00	--	--	--	--	--	--	--	
A-5	09/10/10	3.32	--	--	--	--	--	--	--	
A-5	11/16/10	0.30	--	--	--	--	--	--	--	
A-5	03/02/11	0.00	--	--	--	--	--	--	--	
A-5	05/25/11	1.28	--	--	--	--	--	--	--	
A-5	08/30/11	0.58	--	--	--	--	--	--	--	
A-5	12/02/11	1.41	--	--	--	--	--	--	--	
A-5	03/02/12	0.37	--	--	--	--	--	--	--	
A-5	06/01/12	0.00	--	--	--	--	--	--	--	
A-5	10/03/13	0.00	--	--	--	--	--	--	--	
A-5	01/21/14	6.00	--	--	--	--	--	--	--	
A-8	06/02/09	0.55	--	--	--	--	--	--	--	
A-8	06/09/10	0.00	--	--	--	--	--	--	--	
A-8	05/25/11	1.32	--	--	--	--	--	--	--	
A-8	06/01/12	0.00	--	--	--	--	--	--	--	
A-10	02/14/02	2.50	3	--	--	5.1	5.4	77.00	0.2	
A-10	05/22/02	4.50	7.4	--	--	17	0.61	49.00	0.1	
A-10	08/28/02	1.40	5.7	--	--	16	<0.25	30.00	0.6	
A-10	11/06/02	2.00	5.9	--	--	15	<0.25	10.00	0.3	
A-10	02/20/03	2.70	1.0	--	--	22	6.1	86	<0.1	
A-10	06/10/03	1.40	1.60	--	--	17.00	0.54	63.00	0.1	
A-10	09/17/03	1.70	3.20	--	--	47.00	<0.25a	12.00	0.6	
A-10	11/20/03	1.40	0.10	--	--	4.90	<0.25a	3.70	0.3	
A-10	02/26/04	1.50	0.24	--	--	5.10	<0.25b	61.00	0.2	
A-10	05/12/04	0.60	--*a	--	--	30.00	<0.25	10.00	<0.10	

Table 3

Groundwater Natural Attenuation Parameters

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-10	08/25/04	1.65	0.75	--	--	6.20	<0.25	57.00	0.12	
A-10	12/14/04	2.50	0.093	--	--	<0.050	<0.25	8.80	<0.10	
A-10	03/10/05	2.58	6.60	--	--	12.00	<0.25	260.00	<0.10	
A-10	06/07/05	1.51	1.00	--	--	3.40	<0.25	480.00	16	
A-10	09/20/05	2.10	2.40	--	--	5.60	<0.25	320.00	0.23	
A-10	12/13/05	2.20	0.067	--	--	<0.050	14.00	56.00	<0.10	
A-10	03/15/06	2.20	2.50	--	--	42.00	<0.25	60.00	0.18	
A-10	06/08/06	1.00	1.60	--	--	7.80	<0.25	4.30	0.22	
A-10	09/12/06	1.60	1.40	--	--	15.00	<0.25	140.00	0.18	
A-10	12/12/06	2.00	0.088	--	--	2.00	<0.25	7.90	<0.10	
A-10	06/19/07	2.70	--	--	--	--	--	--	--	
A-10	06/03/08	2.40	--	--	--	--	--	--	--	
A-10	06/02/09	0.45	--	--	--	--	--	--	--	
A-10	06/09/10	0.00	--	--	--	--	--	--	--	
A-10	05/25/11	0.97	--	--	--	--	--	--	--	
A-10	06/01/12	0.00	--	--	--	--	--	--	--	
A-14R	02/14/02	7.50	0.058	--	--	2.4	1.2	190.00	0.2	
A-14R	05/22/02	4.10	0.026	--	--	1.1	2.1	210.00	0.1	
A-14R	08/28/02	1.50	0.034	--	--	0.7	9.5	290.00	<0.1	
A-14R	11/06/02	2.30	0.054	--	--	0.4	5.7	290.00	0.1	
A-14R	02/20/03	2.90	0.26	--	--	<0.2	2.4	300	<0.1	
A-14R	06/10/03	2.00	0.21	--	--	2.20	6.00	220.00	0.3	
A-14R	09/17/03	1.90	2.40	--	--	3.40	0.86a	240.00	0.2	
A-14R	11/20/03	1.80	0.45	--	--	2.40	0.63a	250.00	<0.1	
A-14R	02/26/04	1.40	3.30	--	--	0.31	0.69b	190.00	0.1	
A-14R	05/12/04	2.30	1.40	--	--	<0.050	3.00	130.00	<0.10	
A-14R	08/25/04	3.22	4.30	--	--	0.66	0.42	200.00	<0.10	
A-14R	12/14/04	3.00	3.50	--	--	1.00	<0.25	230.00	<0.10	
A-14R	03/10/05	2.15	1.30	--	--	2.40	<0.25	290.00	<0.10	
A-14R	06/07/05	1.00	0.28	--	--	0.16	0.36	220.00	<0.2	
A-14R	12/13/05	1.10	1.60	--	--	3.70	<0.25	150.00	<0.10	
A-14R	03/15/06	1.10	0.82	--	--	0.14	<0.25	80.00	<0.10	
A-14R	06/08/06	2.40	1.50	--	--	0.53	<0.25	38.00	<0.10	
A-14R	09/12/06	2.00	0.19	--	--	0.80	<0.25	110.00	<0.10	
A-14R	06/19/07	1.90	--	--	--	--	--	--	--	
A-14R	12/12/07	2.90	1.2	--	--	0.76	<0.25	99.00	<0.10	
A-14R	06/03/08	1.90	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-14R	06/02/09	1.00	--	--	--	--	--	--	--	
A-14R	06/09/10	0.00	--	--	--	--	--	--	--	
A-14R	05/25/11	1.05	--	--	--	--	--	--	--	
A-14R	06/01/12	0.00	--	--	--	--	--	--	--	
A-21	02/14/02	0.20	0.27	--	--	40.00	<0.25	76.00	<0.1	
A-21	05/22/02	4.20	0.18	--	--	32.00	<0.25	57.00	<0.1	
A-21	08/29/02	2.10	0.31	--	--	33.00	<0.25	41.00	0.3	
A-21	11/06/02	1.60	0.64	--	--	32.00	<0.25	32.00	<0.1	
A-21	02/19/03	1.90	1.60	--	--	28.00	<0.25	2.90	0.1	
A-21	06/10/03	1.30	2.80	--	--	31.00	<0.25	0.30	0.2	
A-21	09/16/03	1.60	4.10	--	--	33.00	<0.25b	5.30	0.7	
A-21	11/19/03	1.70	5.60	--	--	26.00	<0.25b	16.00	0.2	
A-21	02/25/04	2.10	2.60	--	--	31.00	<0.25b	1.20	0.4	
A-21	05/12/04	0.80	1.80	--	--	33.00	<0.25	0.79	<0.10	
A-21	08/25/04	1.44	5.80	--	--	16.00	<0.25	2.40	0.11	
A-21	12/14/04	2.72	11.00	--	--	4.60	<0.25	0.74	0.12	
A-21	03/10/05	1.50	8.50	--	--	19.00	<0.25	0.79	<0.10	
A-21	06/07/05	1.50	3.80	--	--	3.30	<0.25	<0.50	0.7	
A-21	09/20/05	2.60	6.10	--	--	27.00	<0.25	<0.50	<0.10	
A-21	12/13/05	2.50	7.50	--	--	30.00	<0.25	<0.50	<0.10	
A-21	03/15/06	2.50	3.20	--	--	32.00	<0.25	<0.50	<0.10	
A-21	06/08/06	2.80	2.20	--	--	33.00	<0.25	<0.50	<0.10	
A-21	09/12/06	2.60	2.90	--	--	31.00	<0.25	<0.50	<0.10	
A-21	12/12/06	3.10	3.20	--	--	46.00	<0.25	130.00	0.11	
A-21	03/27/07	3.80	--	--	--	--	--	--	--	
A-21	06/19/07	2.10	0.19	--	--	24	<0.25	120	0.13	
A-21	09/25/07	3.00	--	--	--	--	--	--	--	
A-21	12/11/07	1.70	--	--	--	--	--	--	--	
A-21	03/04/08	0.30	--	--	--	--	--	--	--	
A-21	06/04/08	1.60	0.11	--	--	20.00	0.27	150.00	0.14	
A-21	09/08/08	1.71	--	--	--	--	--	--	--	
A-21	12/04/08	0.72	--	--	--	--	--	--	--	
A-21	03/04/09	0.37	--	--	--	--	--	--	--	
A-21	06/02/09	0.20	0.028	--	--	8.00	<0.25	320.00	<0.10	
A-21	09/22/09	0.56	--	--	--	--	--	--	--	
A-21	11/17/09	0.39	--	--	--	--	--	--	--	
A-21	03/08/10	0.85	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-21	06/08/10	0.33	0.015	--	--	0.72	0.28	85.00	<0.10	
A-21	09/10/10	3.49	--	--	--	--	--	--	--	
A-21	11/16/10	0.33	--	--	--	--	--	--	--	
A-21	03/02/11	1.50	--	--	--	--	--	--	--	
A-21	05/24/11	1.54	0.038	--	--	0.19	0.50	25.00	0.10	
A-21	08/30/11	0.38	--	--	--	--	--	--	--	
A-21	12/02/11	0.70	--	--	--	--	--	--	--	
A-21	03/02/12	0.29	--	--	--	--	--	--	--	
A-21	05/30/12	0.00	<0.010	--	--	9.60	<0.25	940.00	0.15	
A-21	04/10/13	--	<0.010	--	--	--	<0.25	920	<0.10	
A-21	10/03/13	0.00	--	--	--	--	--	--	--	
A-21	01/21/14	3.53	--	--	--	--	--	--	--	
A-21	04/23/14	--	0.013	--	--	0.62	<0.25	250	<0.10	
A-23R	02/14/02	1.20	1.70	--	--	29.00	<0.25	580.00	<0.1	
A-23R	05/20/02	2.30	1.80	--	--	26.00	<0.25	420.00	<0.1	
A-23R	08/28/02	2.40	4.10	--	--	13.00	<0.25	270.00	0.20	
A-23R	11/05/02	2.40	3.60	--	--	11.00	<0.25	200.00	1.60	
A-23R	02/19/03	3.00	6.10	--	--	12.00	<0.25	120.00	<0.1	
A-23R	06/10/03	1.80	1.80	--	--	30.00	<0.25	300.00	0.20	
A-23R	09/16/03	1.40	7.60	--	--	12.00	<0.25b	100.00	0.90	
A-23R	11/19/03	1.50	8.70	--	--	7.80	<0.25b	26.00	0.80	
A-23R	02/25/04	1.70	13.00	--	--	14.00	<0.25b	17.00	0.70	
A-23R	05/12/04	4.70	5.30	--	--	23.00	<0.25	80.00	<1.0	
A-23R	08/25/04	1.80	10.00	--	--	11.00	<0.25	31.00	0.34	
A-23R	12/14/04	2.20	12.00	--	--	9.80	<0.25	6.40	0.25	
A-23R	03/10/05	1.10	7.30	--	--	30.00	<0.25	220.00	0.20	
A-23R	06/07/05	1.50	5.60	--	--	28.00	<0.25	200.00	1.90	
A-23R	09/20/05	1.50	2.60	--	--	34.00	<0.25	270.00	<0.10	
A-23R	12/14/05	0.80	5.30	--	--	25.00	<0.25	50.00	0.17	
A-23R	03/15/06	0.80	13.00	--	--	27.00	<0.25	21.00	0.28	
A-23R	06/08/06	0.70	4.00	--	--	38.00	<0.25	150.00	0.19	
A-23R	09/12/06	1.40	3.60	--	--	33.00	<0.25	100.00	<0.10	
A-23R	12/12/06	2.80	16.00	--	--	24.00	<0.25	4.20	0.31	
A-23R	03/27/07	1.10	--	--	--	--	--	--	--	
A-23R	06/19/07	1.40	3.00	--	--	32.00	<0.25	180.00	0.11	
A-23R	12/11/07	2.73	--	--	--	--	--	--	--	
A-23R	03/04/08	3.20	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-23R	06/05/08	2.40	2.60	--	--	44.00	<0.25	440.00	<0.10	
A-23R	12/05/08	0.33	--	--	--	--	--	--	--	
A-23R	03/04/09	0.35	--	--	--	--	--	--	--	
A-23R	06/02/09	0.60	2.10	--	--	22.00	<0.25	290.00	<0.10	
A-23R	09/21/09	0.77	--	--	--	--	--	--	--	
A-23R	11/16/09	1.29	--	--	--	--	--	--	--	
A-23R	03/08/10	0.86	--	--	--	--	--	--	--	
A-23R	06/08/10	0.89	1.10	--	--	39.00	<0.25	450.00	<0.10	
A-23R	09/09/10	0.54	--	--	--	--	--	--	--	
A-23R	11/16/10	0.96	--	--	--	--	--	--	--	
A-23R	03/01/11	0.00	--	--	--	--	--	--	--	
A-23R	05/24/11	0.59	1.00	--	--	44.00	<0.25	450.00	0.10	
A-23R	08/29/11	0.55	--	--	--	--	--	--	--	
A-23R	12/02/11	1.15	--	--	--	--	--	--	--	
A-23R	03/01/12	1.47	--	--	--	--	--	--	--	
A-23R	05/30/12	0.00	<0.010	--	--	86.00	<0.25	470.00	<0.10	
A-23R	04/08/13	--	<0.010	--	--	11	<0.25 *	1,000	<0.10	
A-23R	10/02/13	0.00	--	--	--	--	--	--	--	
A-23R	01/21/14	4.28	--	--	--	--	--	--	--	
A-23R	04/22/14	--	0.018	--	--	18	<0.25	1,900	<0.10	
A-27	02/14/02	6.70	7.40	--	--	20.00	<0.25	0.55	0.10	
A-27	05/22/02	3.50	9.10	--	--	27.00	<0.25	1.60	<0.1	
A-27	08/29/02	2.30	7.50	--	--	24.00	<0.25	0.29	0.20	
A-27	11/06/02	0.70	5.20	--	--	26.00	<0.25	<0.25	0.20	
A-27	02/19/03	3.20	6.60	--	--	19.00	<0.25	<0.25	<0.1	
A-27	06/10/03	1.20	10.00	--	--	19.00	<0.25	0.77	0.10	
A-27	09/16/03	1.00	8.60	--	--	51.00	<0.25b	0.59	0.70	
A-27	11/19/03	1.10	8.90	--	--	19.00	<0.25b	0.33	<0.1	
A-27	02/25/04	1.90	12.00	--	--	27.00	<0.25b	<0.25	0.30	
A-27	05/11/04	0.70	8.40	--	--	25.00	<0.25	<0.50	<0.10	
A-27	08/25/04	1.68	12.00	--	--	22.00	<0.25	<0.50	0.13	
A-27	12/14/04	1.32	12.00	--	--	10.00	<0.25	<0.50	0.12	
A-27	03/10/05	1.62	12.00	--	--	18.00	<0.25	0.78	<0.10	
A-27	06/07/05	1.00	7.00	--	--	19.00	<0.25	<0.50	0.30	
A-27	09/20/05	3.10	10.00	--	--	29.00	<0.25	0.84	0.16	
A-27	12/13/05	2.30	16.00	--	--	24.00	<0.25	<0.50	<0.10	
A-27	03/15/06	2.30	15.00	--	--	14.00	<0.25	<0.50	0.16	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-27	06/08/06	1.20	13.00	--	--	25.00	<0.25	0.51	0.15	
A-27	09/12/06	1.90	12.00	--	--	19.00	<0.25	<0.50	0.23	
A-27	12/12/06	1.00	13.00	--	--	24.00	<0.25	<0.50	<0.10	
A-27	03/27/07	1.40	--	--	--	--	--	--	--	
A-27	06/19/07	2.40	11.00	--	--	7.50	<0.25	<1.0	0.10	
A-27	09/24/07	1.50	--	--	--	--	--	--	--	
A-27	12/11/07	1.50	--	--	--	--	--	--	--	
A-27	03/04/08	1.80	--	--	--	--	--	--	--	
A-27	06/04/08	2.00	9.90	--	--	10.00	<0.25	<0.50	0.13	
A-27	09/08/08	1.85	--	--	--	--	--	--	--	
A-27	12/05/08	0.39	--	--	--	--	--	--	--	
A-27	03/04/09	0.39	--	--	--	--	--	--	--	
A-27	06/02/09	0.63	6.5	--	--	13	<0.25	1.2	<0.10	
A-27	09/22/09	0.45	--	--	--	--	--	--	--	
A-27	11/16/09	0.46	--	--	--	--	--	--	--	
A-27	03/09/10	1.32	--	--	--	--	--	--	--	
A-27	06/08/10	0.00	3.90	--	--	12.00	<0.25	2.10	<0.10	
A-27	09/09/10	0.47	--	--	--	--	--	<0.50	--	
A-27	11/16/10	0.34	--	--	--	--	--	--	--	
A-27	03/02/11	0.00	--	--	--	--	--	--	--	
A-27	05/24/11	0.27	3.30	--	--	8.80	<0.25	2.20	0.10	
A-27	08/30/11	0.36	--	--	--	--	--	--	--	
A-27	12/02/11	0.77	--	--	--	--	--	--	--	
A-27	03/01/12	0.32	--	--	--	--	--	--	--	
A-27	05/30/12	0.00	2.60	--	--	21.00	<0.25	1.10	<0.10	
A-27	04/10/13	--	3.9	--	--	21	<0.25 *	3.3	<0.10	
A-27	06/21/13	--	--	--	--	--	<0.25 *	2.7	<0.10	Baseline monitoring event
A-27	07/30/13	--	6.2	16	3.6	--	16	<0.50	<0.10	
A-27	10/02/13	0.00	7.4	14	3.6	--	<0.50 *	<0.50	<0.10	
A-27	01/22/14	7.32	--	--	--	--	--	<0.50	<0.10	
A-27	04/22/14	--	2.9	--	--	2.4	<0.25	4.2	<0.10	
A-28R	02/14/02	0.40	8.80	--	--	59.00	<0.25	1.20	0.30	
A-28R	05/22/02	4.40	3.40	--	--	42.00	<0.25	28.00	0.30	
A-28R	08/29/02	3.60	6.20	--	--	45.00	<0.25	0.73	0.30	
A-28R	11/06/02	2.20	5.90	--	--	46.00	<0.25	0.57	<0.1	
A-28R	02/19/03	3.00	6.30	--	--	48.00	<0.25	0.56	<0.1	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-28R	06/10/03	1.20	6.10	--	--	42.00	<0.25	<0.25	<0.1	
A-28R	09/16/03	0.90	10b	--	--	58.00	<0.25b	0.41	0.50	
A-28R	11/19/03	1.20	9.90	--	--	47.00	<0.25b	0.25	<0.1	
A-28R	02/25/04	1.80	9.60	--	--	46.00	<0.25b	<0.25	1.40	
A-28R	05/12/04	1.90	11.00	--	--	47.00	<0.25	<0.50	<0.10	
A-28R	08/25/04	0.50	12.00	--	--	38.00	<0.25	--*b	--*b	
A-28R	12/14/04	1.72	12.00	--	--	22.00	<0.25	<0.50	0.12	
A-28R	03/10/05	3.32	14.00	--	--	42.00	<0.25	<0.50	<0.10	
A-28R	06/07/05	1.00	13.00	--	--	35.00	<0.25	<0.50	0.70	
A-28R	12/13/05	0.89	15.00	--	--	28.00	<0.25	<0.50	0.13	
A-28R	03/15/06	0.89	15.00	--	--	45.00	<0.25	1.30	<0.10	
A-28R	06/08/06	0.80	13.00	--	--	34.00	<0.25	<0.50	--	
A-28R	09/12/06	1.10	16.00	--	--	35.00	<0.25	<0.50	<0.10	
A-28R	12/12/06	1.70	13.00	--	--	25.00	<0.25	<0.50	<0.10	
A-28R	03/27/07	3.20	--	--	--	--	--	--	--	
A-28R	06/19/07	3.20	12.00	--	--	32.00	<0.25	2.50	<0.10	
A-28R	09/24/07	2.90	--	--	--	--	--	--	--	
A-28R	12/11/07	2.60	--	--	--	--	--	--	--	
A-28R	03/04/08	0.80	--	--	--	--	--	--	--	
A-28R	06/04/08	2.30	7.00	--	--	18.00	<0.25	<0.50	<0.10	
A-28R	12/04/08	0.36	--	--	--	--	--	--	--	
A-28R	03/04/09	0.44	--	--	--	--	--	--	--	
A-28R	06/02/09	0.46	2.30	--	--	15.00	<0.25	2.80	0.18	
A-28R	09/22/09	0.55	--	--	--	--	--	--	--	
A-28R	11/16/09	0.52	--	--	--	--	--	--	--	
A-28R	03/09/10	0.50	--	--	--	--	--	--	--	
A-28R	06/08/10	0.00	2.40	--	--	31.00	<0.25	18.00	0.29	
A-28R	09/10/10	3.81	--	--	--	--	--	--	--	
A-28R	11/16/10	0.79	--	--	--	--	--	--	--	
A-28R	03/02/11	0.00	--	--	--	--	--	--	--	
A-28R	05/24/11	0.00	3.60	--	--	39.00	<0.25	1.60	0.13	
A-28R	08/30/11	0.31	--	--	--	--	--	--	--	
A-28R	12/02/11	0.30	--	--	--	--	--	--	--	
A-28R	03/02/12	2.47	--	--	--	--	--	--	--	
A-28R	05/30/12	0.00	2.00	--	--	42.00	<0.25	<0.50	0.11	
A-28R	04/10/13	--	2.5	--	--	37	<0.25 *	7.9	<0.10	
A-28R	10/02/13	0.00	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-28R	01/22/14	5.55	--	--	--	--	--	--	--	
A-28R	04/22/14	--	4.3	--	--	47	0.45	2.2	<0.10	
11	06/24/13	--	--	--	--	--	<0.25	2.5	<0.10	Baseline monitoring event
11	07/30/13	--	0.42	1.0	<0.30	--	<0.25	0.88	<0.10	
11	10/03/13	0.69	0.046	5.2	0.78	--	1.2 *	560	<0.10	
11	01/22/14	9.20	--	--	--	--	--	120	<0.10	
11	04/21/14	--	--	--	--	--	1.1	580	<0.10	
12	06/24/13	--	--	--	--	--	<0.25	<0.50	<0.10	Baseline monitoring event
12	10/03/13	0.00	2.2	39	35	--	1.1 *	5,500	<0.10	
12	01/22/14	3.42	--	--	--	--	--	3,000	<0.10	
12	04/21/14	--	--	--	--	--	<0.25	1,700	0.22	
MW-1	02/13/02	0.70	4.20	--	--	35.00	<0.25	30.00	<0.1	
MW-1	05/21/02	3.90	6.80	--	--	48.00	<0.25	31.00	<0.1	
MW-1	08/28/02	3.20	4.00	--	--	12.00	<0.25	1.20	0.20	
MW-1	11/05/02	1.90	3.60	--	--	85.00	<0.25	0.99	1.30	
MW-1	02/19/03	3.60	4.90	--	--	16.00	<0.25	11.00	0.10	
MW-1	06/10/03	1.30	7.60	--	--	28.00	<0.25	6.40	<0.1	
MW-1	09/16/03	2.40	5.60	--	--	25.00	<0.25b	5.20	<0.1	
MW-1	11/19/03	1.90	3.80	--	--	15.00	<0.25b	0.50	<0.1	
MW-1	02/25/04	2.20	2.60	--	--	21.00	<0.25b	17.00	0.20	
MW-1	05/11/04	1.80	1.60	--	--	27.00	<0.25	11.00	<0.10	
MW-1	08/25/04	2.38	1.60	--	--	18.00	<0.25	2.80	<0.10	
MW-1	12/15/04	3.20	1.40	--	--	4.30	0.72	26.00	<0.10	
MW-1	03/09/05	3.40	1.50	--	--	19.00	<0.25	9.80	<0.10	
MW-1	06/08/05	3.00	0.82	--	--	11.00	<0.25	15.00	<0.2	
MW-1	09/21/05	3.50	0.68	--	--	51.00	<0.25	52.00	<0.10	
MW-1	12/14/05	2.20	1.10	--	--	18.00	<0.25	21.00	<0.10	
MW-1	03/14/06	1.10	0.16	--	--	20.00	<0.25	21.00	<0.10	
MW-1	06/07/06	1.80	0.14	--	--	23.00	<0.25	86.00	<0.10	
MW-1	09/13/06	2.20	2.50	--	--	24.00	<0.25	15.00	<0.10	
MW-1	12/13/06	2.60	0.22	--	--	6.60	1.00	49.00	<0.10	
MW-1	06/20/07	3.40	--	--	--	--	--	--	--	
MW-1	03/04/08	1.20	--	--	--	--	--	26.00	--	
MW-1	06/05/08	2.70	--	--	--	--	<0.25	41.00	--	
MW-1	06/02/09	0.68	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-1	06/08/10	0.00	--	--	--	--	--	--	--	
MW-1	05/24/11	0.12	--	--	--	--	--	--	--	
MW-1	05/31/12	0.00	--	--	--	--	--	--	--	
MW-2	02/13/02	0.40	<0.01	--	--	0.60	0.45	15.00	0.10	
MW-2	05/21/02	3.10	<0.01	--	--	0.90	<0.25	12.00	<0.1	
MW-2	08/29/02	2.10	0.69	--	--	1.60	<0.25	9.80	<0.1	
MW-2	11/05/02	1.90	1.20	--	--	5.10	<0.25	9.60	<0.1	
MW-2	02/19/03	2.10	0.031	--	--	1.60	<0.25	55.00	<0.1	
MW-2	06/10/03	1.40	0.059	--	--	1.60	<0.25	25.00	0.30	
MW-2	09/16/03	1.40	1.10	--	--	12.00	<0.25b	21.00	0.60	
MW-2	11/19/03	6.40	0.13	--	--	0.40	<0.25b	8.30	<0.1	
MW-2	02/25/04	4.30	0.079	--	--	0.75	0.67b	17.00	0.20	
MW-2	05/11/04	2.70	0.24	--	--	0.18	0.64	25.00	<0.10	
MW-2	08/25/04	2.02	0.11	--	--	0.063	<0.25	21.00	<0.10	
MW-2	12/14/04	2.72	0.093	--	--	<0.050	<0.25	11.00	<0.10	
MW-2	03/10/05	1.00	0.23	--	--	0.32	0.34	31.00	<0.10	
MW-2	06/07/05	1.00	0.44	--	--	0.059	0.26	21.00	<0.2	
MW-2	09/20/05	1.70	0.033	--	--	<0.050	<0.25	25.00	<0.10	
MW-2	12/13/05	3.00	0.71	--	--	1.60	<0.25	4.50	<0.10	
MW-2	03/15/06	1.80	<0.010	--	--	<0.050	0.54	17.00	<0.10	
MW-2	06/08/06	1.20	0.013	--	--	<0.050	0.35	10.00	<0.10	
MW-2	09/12/06	1.50	0.49	--	--	<0.050	<0.25	13.00	<0.10	
MW-2	12/12/06	1.20	0.018	--	--	0.068	0.91	14.00	<0.10	
MW-2	06/19/07	1.80	--	--	--	--	--	--	--	
MW-2	03/04/08	3.20	--	--	--	--	--	19.00	--	
MW-2	06/04/08	1.90	--	--	--	--	0.97	12.00	--	
MW-2	06/02/09	4.27	--	--	--	--	--	--	--	
MW-2	06/08/10	1.71	--	--	--	--	--	--	--	
MW-2	05/23/11	3.30	--	--	--	--	--	--	0.0050	
MW-2	05/31/12	1.83	--	--	--	--	--	--	0.0050	
MW-2	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-2	04/22/14	--	--	--	--	--	--	--	<0.10	
MW-3	02/13/02	0.30	0.033	--	--	0.40	2.50	16.00	0.10	
MW-3	05/20/02	4.10	0.96	--	--	3.50	<0.25	29.00	0.10	
MW-3	08/28/02	2.60	4.60	--	--	11.00	<0.25	19.00	0.20	
MW-3	11/06/02	2.90	0.88	--	--	0.80	<0.25	9.20	0.20	
MW-3	02/19/03	8.60	0.017	--	--	0.20	6.10	84.00	0.20	

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 2720 13th Avenue Southwest
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MW-3	06/11/03	6.54	0.022	--	--	0.40	8.50	130.00	0.20	
MW-3	09/17/03	6.50	0.028	--	--	0.80	8.20	160.00	<0.1	
MW-3	11/20/03	7.80	<0.01	--	--	<0.2	17.00	66.00	0.20	
MW-3	02/25/04	2.80	<0.01	--	--	<0.050	6.70	35.00	0.20	
MW-3	05/11/04	8.40	<0.010	--	--	<0.050	7.70	59.00	<0.10	
MW-3	08/25/04	1.80	<0.010	--	--	<0.050	7.00	66.00	<0.10	
MW-3	12/15/04	7.60	0.059	--	--	<0.050	6.50	50.00	<0.10	
MW-3	03/09/05	4.43	1.80	--	--	<0.050	3.50	51.00	<0.10	
MW-3	06/08/05	1.98	3.30	--	--	<0.050	4.20	37.00	<0.2	
MW-3	09/21/05	2.90	4.30	--	--	0.064	3.40	47.00	<0.10	
MW-3	12/14/05	1.80	0.80	--	--	<0.050	1.60	72.00	<0.10	
MW-3	03/14/06	3.10	0.23	--	--	<0.050	7.50	22.00	<0.10	
MW-3	06/07/06	1.80	0.30	--	--	<0.050	4.60	21.00	<0.10	
MW-3	09/13/06	2.60	2.40	--	--	<0.050	0.40	30.00	<0.10	
MW-3	12/13/06	0.80	0.25	--	--	0.064	2.80	28.00	<0.10	
MW-3	06/20/07	2.20	--	--	--	--	--	--	--	
MW-3	06/05/08	2.00	--	--	--	--	3.40	15.00	--	
MW-3	06/02/09	4.84	--	--	--	--	--	--	--	
MW-3	06/09/10	3.24	--	--	--	--	--	--	--	
MW-3	05/23/11	5.29	--	--	--	--	--	--	--	
MW-3	05/31/12	0.34	--	--	--	--	--	--	--	
MW-4	02/14/02	0.60	5.80	--	--	32.00	<0.25	3.10	0.70	
MW-4	05/21/02	3.90	1.90	--	--	23.00	<0.25	1.60	0.50	
MW-4	08/28/02	1.00	5.10	--	--	86.00	<0.25	2.90	--**	
MW-4	02/19/03	2.00	1.80	--	--	120.00	<0.25	270.00	--**	
MW-4	06/10/03	0.90	4.90	--	--	36.00	<0.25	8.40	0.60	
MW-4	11/19/03	1.40	1.90	--	--	31.00	0.25b	49.00	0.60	
MW-4	02/25/04	2.20	1.20	--	--	32.00	<0.25b	1.00	0.30	
MW-4	05/12/04	0.89	4.90	--	--	37.00	<0.25	5.30	<0.10	
MW-4	08/26/04	2.32	1.40	--	--	26.00	<0.25	6.40	0.42	
MW-4	03/09/05	1.37	1.00	--	--	31.00	<0.25	110.00	0.33	
MW-4	06/08/05	1.50	1.60	--	--	46.00	<0.25	11.00	0.50	
MW-4	09/21/05	1.30	7.00	--	--	54.00	<0.25	0.52	23.00	
MW-4	12/14/05	2.40	6.60	--	--	19.00	<0.25	33.00	0.38	
MW-4	03/14/06	2.40	4.20	--	--	11.00	<0.25	1.90	0.53	
MW-4	06/07/06	3.20	7.10	--	--	8.30	<0.25	<0.50	0.54	
MW-4	09/13/06	2.80	7.60	--	--	15.00	<0.25	<0.50	0.85	

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 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-4	12/13/06	2.90	2.30	--	--	8.70	<0.25	31.00	<0.10	
MW-4	06/20/07	1.80	--	--	--	--	--	--	--	
MW-4	06/05/08	2.60	--	--	--	--	--	--	--	
MW-4	06/02/09	0.26	--	--	--	--	--	--	--	
MW-4	06/08/10	0.00	--	--	--	--	--	--	--	
MW-4	05/24/11	0.25	--	--	--	--	--	--	--	
MW-4	06/01/12	0.00	--	--	--	--	--	--	--	
MW-5	02/13/02	2.70	<0.01	--	--	<0.1	<0.25	12.00	0.20	
MW-5	05/21/02	3.80	<0.01	--	--	0.20	<0.25	7.40	0.10	
MW-5	08/29/02	1.40	0.17	--	--	0.30	<0.25	11.00	0.20	
MW-5	11/05/02	4.10	6.40	--	--	13.00	1.10	250.00	0.30	
MW-5	02/20/03	2.00	0.073	--	--	<0.2	<0.25	6.20	<0.1	
MW-5	06/11/03	1.60	2.50	--	--	0.60	<0.25	8.20	0.10	
MW-5	09/16/03	1.20	4.70	--	--	3.10	<0.25b	5.60	0.10	
MW-5	11/20/03	4.90	<0.01	--	--	0.30	<0.25a	4.70	0.20	
MW-5	02/24/04	3.10	0.33	--	--	0.062	<0.25b	5.80	0.10	
MW-5	05/11/04	1.90	0.61	--	--	1.50	0.27	3.00	<0.10	
MW-5	08/26/04	1.22	<0.010	--	--	<0.050	1.80	7.60	<0.10	
MW-5	12/15/04	12.19	<0.010	--	--	<0.050	0.27	4.30	<0.10	
MW-5	03/09/05	6.22	0.020	--	--	<0.050	<0.25	15.00	<0.10	
MW-5	06/08/05	2.50	<0.010	--	--	<0.050	<0.25	11.00	<0.2	
MW-5	09/21/05	1.90	0.080	--	--	0.077	<0.25	8.90	<0.10	
MW-5	12/14/05	2.20	<0.010	--	--	<0.050	<0.25	9.80	--*a	
MW-5	03/14/06	2.20	<0.010	--	--	<0.050	0.55	3.20	<0.10	
MW-5	06/07/06	2.00	<0.010	--	--	<0.050	1.10	4.50	<0.10	
MW-5	09/13/06	2.10	0.34	--	--	<0.050	<0.25	6.60	<0.10	
MW-5	12/13/06	2.30	<0.010	--	--	<0.050	0.30	3.80	<0.10	
MW-5	06/04/08	2.40	--	--	--	--	--	--	--	
MW-5	06/02/09	4.34	--	--	--	--	--	--	--	
MW-5	06/08/10	1.84	--	--	--	--	--	--	--	
MW-5	05/24/11	5.26	--	--	--	--	--	--	--	
MW-5	05/31/12	2.33	--	--	--	--	--	--	--	
MW-6	02/13/02	2.50	2.60	--	--	2.40	<0.25	26.00	0.20	
MW-6	05/22/02	4.60	1.20	--	--	6.00	<0.25	22.00	0.10	
MW-6	08/29/02	1.20	0.72	--	--	4.10	<0.25	11.00	0.10	
MW-6	11/05/02	1.70	1.70	--	--	10.00	<0.25	5.60	0.70	
MW-6	02/19/03	3.30	1.20	--	--	7.30	<0.25	62.00	0.10	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-6	06/10/03	2.00	0.87	--	--	5.90	<0.25	17.00	0.20	
MW-6	09/16/03	2.30	1.60	--	--	41.00	<0.25b	2.90	1.00	
MW-6	11/19/03	5.10	1.70	--	--	5.40	<0.25b	19.00	<0.1	
MW-6	02/25/04	2.40	<0.01	--	--	0.49	2.8b	24.00	<0.1	
MW-6	05/11/04	1.20	0.39	--	--	5.10	<0.25	12.00	<0.10	
MW-6	08/25/04	2.26	0.59	--	--	4.90	<0.25	8.70	0.18	
MW-6	12/14/04	1.45	2.80	--	--	2.50	<0.25	9.90	<0.10	
MW-6	03/10/05	0.70	0.85	--	--	1.90	<0.25	20.00	0.15	
MW-6	06/07/05	3.80	0.38	--	--	0.86	0.56	19.00	0.20	
MW-6	09/20/05	0.90	1.50	--	--	2.50	<0.25	6.00	0.18	
MW-6	12/13/05	1.00	1.90	--	--	2.60	<0.25	10.00	0.26	
MW-6	03/15/06	1.00	0.057	--	--	0.30	<0.25	17.00	<0.10	
MW-6	06/08/06	1.90	0.22	--	--	5.90	<0.25	7.30	0.39	
MW-6	09/12/06	1.60	0.98	--	--	2.50	<0.25	3.10	0.33	
MW-6	12/12/06	2.00	0.032	--	--	1.60	0.91	49.00	<0.10	
MW-6	03/27/07	2.30	--	--	--	--	--	--	--	
MW-6	06/19/07	1.40	0.40	--	--	4.40	<0.25	15.00	0.21	
MW-6	09/24/07	3.40	--	--	--	--	--	--	--	
MW-6	12/11/07	3.16	--	--	--	--	--	--	--	
MW-6	03/04/08	1.50	--	--	--	--	--	--	--	
MW-6	06/04/08	2.90	0.38	--	--	0.70	<0.25	11.00	0.13	
MW-6	09/08/08	0.89	--	--	--	--	--	--	--	
MW-6	12/04/08	0.33	--	--	--	--	--	--	--	
MW-6	03/04/09	0.57	--	--	--	--	--	--	--	
MW-6	06/02/09	1.37	0.096	--	--	0.30	3.30	24.00	<0.10	
MW-6	09/21/09	0.28	--	--	--	--	--	--	--	
MW-6	11/17/09	0.46	--	--	--	--	--	--	--	
MW-6	03/09/10	1.33	--	--	--	--	--	--	--	
MW-6	06/08/10	0.080	0.036	--	--	0.22	0.41	11.00	<0.10	
MW-6	09/09/10	0.40	--	--	--	--	--	4.80	--	
MW-6	11/15/10	0.42	--	--	--	--	--	--	--	
MW-6	03/02/11	1.20	--	--	--	--	--	--	--	
MW-6	05/23/11	1.86	0.010	--	--	<0.050	0.68	10.00	0.10	
MW-6	08/30/11	0.32	--	--	--	--	--	--	--	
MW-6	12/02/11	0.90	--	--	--	--	--	--	--	
MW-6	03/01/12	1.69	--	--	--	--	--	--	--	
MW-6	05/31/12	0.00	<0.010	--	--	<0.050	2.10	18.00	<0.10	

Table 3
Groundwater Natural Attenuation Parameters

 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-6	04/09/13	--	<0.010	--	--	<0.050	0.92 *	15	<0.10	
MW-6	10/02/13	10.68	--	--	--	--	--	--	--	
MW-6	01/22/14	8.95	--	--	--	--	--	--	--	
MW-6	04/22/14	--	<0.010	--	--	<0.050	1.6	23	<0.10	
MW-7	02/14/02	0.10	13.00	--	--	17.00	<0.25	2.20	0.20	
MW-7	05/21/02	3.10	15.00	--	--	13.00	<0.25	1.10	0.30	
MW-7	08/29/02	1.40	14.00	--	--	9.80	<0.25	20.00	0.40	
MW-7	11/05/02	3.00	14.00	--	--	8.90	<0.25	7.00	0.50	
MW-7	02/20/03	2.50	13.00	--	--	13.00	<0.25	21.00	1.10	
MW-7	06/11/03	2.00	17.00	--	--	12.00	<0.25	1.10	0.50	
MW-7	09/17/03	1.10	14.00	--	--	2.70	<0.25a	3.00	1.10	
MW-7	11/20/03	2.40	0.98	--	--	0.90	1.3a	19.00	<0.1	
MW-7	02/26/04	6.20	18.00	--	--	27.00	<0.25b	59.00	0.90	
MW-7	05/11/04	1.00	14.00	--	--	16.00	<0.25	12.00	0.15	
MW-7	08/26/04	3.80	15.00	--	--	13.00	<0.25	9.20	0.47	
MW-7	12/15/04	1.30	10.00	--	--	20.00	3.20	68.00	0.19	
MW-7	03/09/05	1.45	18.00	--	--	9.30	<0.25	4.50	0.45	
MW-7	06/08/05	10.50	17.00	--	--	8.70	<0.25	1.40	0.40	
MW-7	12/14/05	1.70	22.00	--	--	19.00	<0.25	75.00	0.16	
MW-7	03/14/06	1.70	18.00	--	--	9.70	<0.25	19.00	0.36	
MW-7	06/07/06	1.60	19.00	--	--	2.70	<0.25	17.00	0.43	
MW-7	09/13/06	2.00	17.00	--	--	1.80	<0.25	2.10	0.17	
MW-7	03/27/07	1.90	--	--	--	--	--	--	--	
MW-7	06/20/07	1.00	23.00	--	--	2.90	<0.25	8.30	0.45	
MW-7	09/24/07	2.60	--	--	--	--	--	--	--	
MW-7	12/11/07	3.22	--	--	--	--	--	--	--	
MW-7	03/04/08	1.30	--	--	--	--	--	13.00	--	
MW-7	06/04/08	1.30	19.00	--	--	0.15	<0.25	2.30	0.63	
MW-7	09/08/08	0.73	--	--	--	--	--	--	--	
MW-7	12/05/08	0.40	--	--	--	--	--	--	--	
MW-7	03/04/09	0.70	--	--	--	--	--	--	--	
MW-7	06/02/09	0.37	25.00	--	--	2.80	<0.25	21.00	0.42	
MW-7	09/22/09	0.54	--	--	--	--	--	--	--	
MW-7	11/17/09	0.64	--	--	--	--	--	--	--	
MW-7	03/09/10	0.18	--	--	--	--	--	--	--	
MW-7	06/09/10	0.00	27.00	--	--	1.10	1.60	1.60	0.44	
MW-7	09/09/10	0.25	--	--	--	--	<0.25	3.60	--	

Table 3
Groundwater Natural Attenuation Parameters

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 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-7	11/15/10	0.47	--	--	--	--	--	--	--	
MW-7	03/01/11	0.00	--	--	--	--	--	--	--	
MW-7	05/24/11	0.00	3.50	--	--	1.80	0.46	5.10	0.55	
MW-7	08/29/11	0.44	--	--	--	--	--	--	--	
MW-7	12/01/11	0.42	--	--	--	--	--	--	--	
MW-7	03/01/12	0.25	--	--	--	--	--	--	--	
MW-7	05/31/12	0.00	14.00	--	--	1.50	<0.25	2.40	0.70	
MW-7	04/09/13	--	3.7	--	--	3.3	<0.25 *	4.7	0.054 J	
MW-7	06/21/13	--	--	--	--	--	<0.25 *	3.2	<0.10	Baseline monitoring event
MW-7	07/30/13	--	20	4.6	<0.30	--	<0.25	4.1	<0.10	
MW-7	10/03/13	0.00	20	170	140	--	0.81 *	3,100	<0.10	
MW-7	01/22/14	5.11	--	--	--	--	--	2,100	0.23	
MW-7	04/21/14	--	7.9	--	--	15	0.29	1,200	0.18	
MW-8	02/14/02	2.50	0.24	--	--	0.20	0.42	5.50	0.20	
MW-8	08/29/02	6.20	0.90	--	--	2.30	<0.25	3.70	0.20	
MW-8	11/05/02	2.10	5.50	--	--	3.40	<0.25	7.50	0.10	
MW-8	02/20/03	2.90	0.56	--	--	0.50	0.69	7.60	0.30	
MW-8	06/11/03	1.56	18.00	--	--	0.30	<0.25	<0.25	0.40	
MW-8	09/17/03	2.50	11.00	--	--	6.10	<0.25a	6.70	0.40	
MW-8	11/20/03	1.70	<0.010	--	--	<0.2	2.4a	11.00	0.10	
MW-8	02/26/04	2.30	<0.01	--	--	0.57	1.2b	4.40	0.20	
MW-8	05/11/04	3.10	0.19	--	--	0.12	<0.25	5.30	<0.10	
MW-8	08/26/04	3.32	0.36	--	--	<0.050	2.20	11.00	<0.10	
MW-8	12/15/04	2.30	<0.010	--	--	<0.050	5.80	15.00	<0.10	
MW-8	03/09/05	2.22	<0.010	--	--	<0.050	1.20	7.30	<0.10	
MW-8	06/08/05	6.50	0.018	--	--	<0.050	2.30	7.40	<0.2	
MW-8	09/21/05	2.10	4.40	--	--	0.51	<0.25	11.00	<0.10	
MW-8	12/14/05	2.50	4.00	--	--	<0.050	2.20	11.00	<0.10	
MW-8	03/14/06	2.50	<0.010	--	--	<0.050	1.60	6.40	<0.10	
MW-8	06/07/06	1.30	0.53	--	--	<0.050	1.10	6.00	<0.10	
MW-8	09/13/06	1.60	7.10	--	--	0.068	<0.25	5.00	<0.10	
MW-8	12/13/06	3.10	<0.010	--	--	<0.050	7.30	41.00	<0.10	
MW-8	06/20/07	2.20	--	--	--	--	--	--	--	
MW-8	06/04/08	2.50	--	--	--	--	--	--	--	
MW-8	06/02/09	1.52	--	--	--	--	--	--	--	
MW-8	06/09/10	1.55	--	--	--	--	--	--	--	

Table 3
Groundwater Natural Attenuation Parameters

 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-8	05/23/11	0.85	--	--	--	--	--	--	--	
MW-8	05/31/12	0.79	--	--	--	--	--	--	--	
MW-9	06/11/03	2.10	6.60	--	--	15.00	<0.25	2.00	0.70	
MW-9	09/17/03	2.10	9.80	--	--	19.00	<0.25a	1.50	0.70	
MW-9	11/20/03	1.60	2.20	--	--	14.00	<0.25a	66.00	0.30	
MW-9	02/26/04	1.10	15.00	--	--	12.00	<0.25b	8.10	0.80	
MW-9	05/11/04	0.90	4.10	--	--	0.25	<0.25	0.62	0.12	
MW-9	08/26/04	1.80	8.20	--	--	15.00	<0.25	1.00	0.41	
MW-9	12/15/04	1.76	5.30	--	--	29.00	10.00	180.00	<0.10	
MW-9	03/09/05	4.70	4.30	--	--	7.20	<0.25	4.40	0.30	
MW-9	06/08/05	4.50	6.50	--	--	8.40	<0.25	6.10	0.30	
MW-9	09/21/05	1.70	11.00	--	--	14.00	<0.25	1.90	0.21	
MW-9	12/14/05	3.30	10.00	--	--	9.10	<0.25	17.00	0.11	
MW-9	03/14/06	3.30	12.00	--	--	3.40	<0.25	1.40	0.51	
MW-9	06/07/06	0.90	4.60	--	--	5.60	<0.25	0.94	0.13	
MW-9	09/13/06	1.90	7.40	--	--	7.50	<0.25	<0.50	<0.10	
MW-9	12/13/06	2.40	0.72	--	--	3.60	0.27	12.00	0.19	
MW-9	03/27/07	2.90	--	--	--	--	--	--	--	
MW-9	06/20/07	2.90	3.50	--	--	6.00	<0.25	<0.50	0.42	
MW-9	09/24/07	2.50	--	--	--	--	--	--	--	
MW-9	12/11/07	1.76	--	--	--	--	--	--	--	
MW-9	03/04/08	1.50	--	--	--	--	--	--	--	
MW-9	06/04/08	1.80	3.50	--	--	7.90	<0.25	0.80	0.40	
MW-9	09/08/08	1.25	--	--	--	--	--	--	--	
MW-9	12/05/08	0.47	--	--	--	--	--	--	--	
MW-9	03/04/09	0.32	--	--	--	--	--	--	--	
MW-9	06/02/09	0.51	0.57	--	--	1.50	<0.25	10.00	<0.10	
MW-9	09/22/09	1.16	--	--	--	--	--	--	--	
MW-9	11/17/09	0.48	--	--	--	--	--	--	--	
MW-9	03/09/10	0.48	--	--	--	--	--	--	--	
MW-9	06/09/10	0.00	7.50	--	--	2.90	<0.25	4.80	0.49	
MW-9	09/09/10	0.37	--	--	--	--	--	2.00	--	
MW-9	11/15/10	0.39	--	--	--	--	--	--	--	
MW-9	03/01/11	0.00	--	--	--	--	--	--	--	
MW-9	05/24/11	0.00	18.00	--	--	<0.050	<0.25	3.60	0.10	
MW-9	08/29/11	0.27	--	--	--	--	--	--	--	
MW-9	12/01/11	0.66	--	--	--	--	--	--	--	

Table 3
Groundwater Natural Attenuation Parameters

 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-9	03/01/12	1.35	--	--	--	--	--	--	--	
MW-9	05/31/12	0.00	0.13	--	--	<0.050	0.38	5.30	<0.10	
MW-9	04/10/13	--	6.1	--	--	<0.050	0.88 *	3.2	<0.10	
MW-9	06/24/13	--	--	--	--	--	<0.25	5.3	0.11	Baseline monitoring event
MW-9	07/30/13	--	14	2.0	<0.30	--	<0.25	72	0.077 J	
MW-9	10/03/13	0.00	18	3.8	1.5	--	<0.50 *	8.6	<0.10	
MW-9	01/22/14	9.46	--	--	--	--	--	26	<0.10	
MW-9	04/21/14	--	24	--	--	0.45	<0.25	300	<0.10	
MW-12R	06/01/09	0.36	--	--	--	--	--	--	--	
MW-12R	06/08/10	0.19	--	--	--	--	--	--	--	
MW-12R	05/23/11	0.55	--	--	--	--	--	--	0.0050	
MW-12R	06/01/12	0.00	--	--	--	--	--	--	0.0050	
MW-12R	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-12R	04/23/14	--	--	--	--	--	--	--	<0.10	
MW-13R	06/01/09	0.49	--	--	--	--	--	--	--	
MW-13R	06/08/10	0.00	--	--	--	--	--	--	--	
MW-13R	05/23/11	0.18	--	--	--	--	--	--	0.0050	
MW-13R		Abandoned on 5/25/2012								
MW-14	02/13/02	1.40	2.80	--	--	22.00	<0.25	21.00	0.30	
MW-14	05/21/02	4.00	6.20	--	--	22.00	<0.25	11.00	0.60	
MW-14	08/29/02	2.20	5.90	--	--	20.00	<0.25	52.00	0.70	
MW-14	11/05/02	2.40	11.00	--	--	23.00	<0.25	39.00	0.80	
MW-14	02/20/03	1.90	3.50	--	--	20.00	<0.25	35.00	0.80	
MW-14	06/11/03	1.50	2.90	--	--	19.00	<0.25	4.30	0.40	
MW-14	09/16/03	1.30	0.86	--	--	15.00	<0.25b	0.89	0.50	
MW-14	11/20/03	3.70	0.57	--	--	4.90	0.57a	31.00	<0.1	
MW-14	02/24/04	4.30	2.40	--	--	19.00	<0.25b	0.60	0.60	
MW-14	05/11/04	0.10	2.30	--	--	19.00	<0.25	<0.50	<0.10	
MW-14	08/26/04	1.01	2.90	--	--	13.00	<0.25	47.00	0.38	
MW-14	12/15/04	2.88	4.50	--	--	0.13	4.80	110.00	<0.10	
MW-14	03/09/05	2.99	6.80	--	--	12.00	0.62	41.00	0.30	
MW-14	06/08/05	2.00	4.30	--	--	15.00	<0.25	18.00	0.40	
MW-14	09/21/05	2.00	7.60	--	--	19.00	<0.25	8.20	0.36	
MW-14	12/14/05	2.10	8.90	--	--	9.50	<0.25	21.00	<0.10	
MW-14	03/14/06	2.10	1.50	--	--	7.90	<0.25	33.00	0.12	
MW-14	06/07/06	1.50	1.50	--	--	11.00	<0.25	16.00	1.10	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-14	09/13/06	1.80	6.80	--	--	14.00	<0.25	1.70	0.22	
MW-14	12/13/06	2.20	2.20	--	--	5.80	0.36	25.00	<0.10	
MW-14	03/27/07	2.70	--	--	--	--	--	--	--	
MW-14	06/20/07	3.40	2.90	--	--	7.50	<0.25	4.90	0.79	
MW-14	09/24/07	3.10	--	--	--	--	--	--	--	
MW-14	12/11/07	1.76	--	--	--	--	--	--	--	
MW-14	03/04/08	1.10	--	--	--	--	--	--	--	
MW-14	06/04/08	2.70	2.00	--	--	3.40	<0.25	8.90	0.58	
MW-14	09/08/08	0.69	--	--	--	--	--	--	--	
MW-14	12/05/08	0.45	--	--	--	--	--	--	--	
MW-14	03/04/09	0.81	--	--	--	--	--	--	--	
MW-14	06/02/09	0.89	0.15	--	--	0.12	2.50	34.00	<0.10	
MW-14	09/21/09	0.92	--	--	--	--	--	--	--	
MW-14	11/17/09	1.01	--	--	--	--	--	--	--	
MW-14	03/08/10	0.32	--	--	--	--	--	--	--	
MW-14	06/08/10	0.25	0.72	--	--	0.18	<0.25	8.50	<0.10	
MW-14	09/10/10	0.32	--	--	--	--	--	--	--	
MW-14	11/15/10	0.35	--	--	--	--	--	--	--	
MW-14	03/01/11	0.020	--	--	--	--	--	--	--	
MW-14	05/24/11	0.00	0.18	--	--	0.10	0.25	14.00	0.10	
MW-14	08/29/11	0.19	--	--	--	--	--	--	--	
MW-14	12/01/11	0.31	--	--	--	--	--	--	--	
MW-14	03/01/12	1.10	--	--	--	--	--	--	--	
MW-14	05/31/12	0.00	0.086	--	--	<0.050	<0.25	10.00	<0.10	
MW-14	04/09/13	--	0.25	--	--	<0.050	0.46 *	9.2	<0.10	
MW-14	10/03/13	0.00	--	--	--	--	--	--	--	
MW-14	01/22/14	5.98	--	--	--	--	--	--	--	
MW-14	04/21/14	--	0.23	--	--	<0.050	<0.25	8.8	<0.10	
MW-16	06/02/09	1.48	--	--	--	--	--	--	--	
MW-16	06/09/10	1.11	--	--	--	--	--	--	--	
MW-16	05/23/11	1.34	--	--	--	--	--	--	--	
MW-16	05/31/12	0.020	--	--	--	--	--	--	--	
MW-18	03/27/07	3.20	--	--	--	--	--	--	--	
MW-18	09/24/07	3.20	--	--	--	--	--	--	--	
MW-18	12/11/07	3.40	--	--	--	--	--	--	--	
MW-18	03/04/08	1.50	--	--	--	--	--	--	--	
MW-18	06/04/08	3.10	--	--	--	--	--	--	--	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-18	09/08/08	1.26	--	--	--	--	--	--	--	
MW-18	12/04/08	0.21	--	--	--	--	--	--	--	
MW-18	03/04/09	0.94	--	--	--	--	--	--	--	
MW-18	06/02/09	0.47	--	--	--	--	--	--	--	
MW-18	09/22/09	0.63	--	--	--	--	--	--	--	
MW-18	11/17/09	8.07	--	--	--	--	--	--	--	
MW-18	03/09/10	0.90	--	--	--	--	--	--	--	
MW-18	06/08/10	0.00	--	--	--	--	--	--	--	
MW-18	09/10/10	3.84	--	--	--	--	--	--	--	
MW-18	11/16/10	0.59	--	--	--	--	--	--	--	
MW-18	03/02/11	0.030	--	--	--	--	--	--	--	
MW-18	05/23/11	0.00	--	--	--	--	--	--	--	
MW-18	08/30/11	0.28	--	--	--	--	--	--	--	
MW-18	12/02/11	0.57	--	--	--	--	--	--	--	
MW-18	03/02/12	0.57	--	--	--	--	--	--	--	
MW-18	05/31/12	0.00	--	--	--	--	--	--	--	
MW-18	10/02/13	0.00	--	--	--	--	--	--	--	
MW-18	01/22/14	5.50	--	--	--	--	--	--	--	
MW-19	02/13/02	3.50	13.00	--	--	22.00	<0.25	0.43	0.60	
MW-19	05/21/02	3.20	15.00	--	--	13.00	<0.25	0.39	0.50	
MW-19	08/29/02	0.90	13.00	--	--	19.00	<0.25	<0.25	0.60	
MW-19	11/05/02	2.70	10.00	--	--	19.00	<0.25	<0.25	0.40	
MW-19	02/20/03	3.20	13.00	--	--	43.00	<0.25	23.00	0.50	
MW-19	06/11/03	0.50	16.00	--	--	37.00	<0.25	11.00	0.40	
MW-19	09/16/03	1.40	18.00	--	--	30.00	<0.25b	5.20	0.70	
MW-19	11/20/03	4.80	18.00	--	--	49.00	<0.25a	10.00	0.50	
MW-19	02/24/04	2.10	20.00	--	--	39.00	<0.25b	1.80	0.60	
MW-19	05/11/04	0.60	17.00	--	--	30.00	<0.25	0.98	0.24	
MW-19	08/26/04	2.83	15.00	--	--	15.00	<0.25	<0.50	0.20	
MW-19	12/15/04	3.89	21.00	--	--	44.00	<0.25	31.00	0.22	
MW-19	03/09/05	3.42	22.00	--	--	25.00	<0.25	5.30	0.26	
MW-19	06/08/05	0.89	15.00	--	--	18.00	<0.25	12.00	0.60	
MW-19	06/07/06	1.70	18.00	--	--	7.90	<0.25	<0.50	0.55	
MW-19	09/13/06	2.10	19.00	--	--	10.00	<0.25	<0.50	1.30	
MW-19	12/13/06	3.90	19.00	--	--	30.00	<0.25	16.00	0.43	
MW-19	03/27/07	2.50	--	--	--	--	--	--	--	
MW-19	06/20/07	1.90	23.00	--	--	9.30	<0.25	<0.50	0.19	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-19	09/24/07	3.70	--	--	--	--	--	--	--	
MW-19	12/11/07	2.13	--	--	--	--	--	--	--	
MW-19	03/04/08	1.90	--	--	--	--	--	--	--	
MW-19	06/04/08	3.40	21.00	--	--	7.00	<0.25	0.86	0.46	
MW-19	09/08/08	1.02	--	--	--	--	--	--	--	
MW-19	12/05/08	0.27	--	--	--	--	--	--	--	
MW-19	03/04/09	0.52	--	--	--	--	--	--	--	
MW-19	06/02/09	0.37	28.00	--	--	6.30	<0.25	<0.50	0.18	
MW-19	09/21/09	0.35	--	--	--	--	--	--	--	
MW-19	11/17/09	0.86	--	--	--	--	--	--	--	
MW-19	03/08/10	0.69	--	--	--	--	--	--	--	
MW-19	06/08/10	0.00	27.00	--	--	10.00	<0.25	<0.50	<0.10	
MW-19	09/09/10	0.41	--	--	--	--	<0.25	39.00	--	
MW-19	11/15/10	0.35	--	--	--	--	--	--	--	
MW-19	03/01/11	0.00	--	--	--	--	--	--	--	
MW-19	05/24/11	0.69	28.00	--	--	1.70	<0.25	3.80	0.11	
MW-19	08/29/11	0.21	--	--	--	--	--	--	--	
MW-19	12/01/11	0.41	--	--	--	--	--	--	--	
MW-19	03/01/12	0.26	--	--	--	--	--	--	--	
MW-19	05/31/12	0.00	13.00	--	--	10.00	<0.25	<0.50	0.21	
MW-19	04/09/13	--	27	--	--	7.5	<0.25 *	<0.50	<0.10	
MW-19	06/21/13	--	--	--	--	--	<0.25 *	<0.50	0.13	Baseline monitoring event
MW-19	10/03/13	0.00	--	--	--	--	--	--	--	
MW-19	01/22/14	7.20	--	--	--	--	--	620	<0.10	
MW-19	04/21/14	--	28	--	--	30	<0.25	190	0.23	
MW-20	02/13/02	0.40	8	--	--	6.6	0.25	9.70	<0.1	
MW-20	05/20/02	2.30	16	--	--	4.1	<0.25	7.70	0.1	
MW-20	08/29/02	2.60	12	--	--	5.4	<0.25	7.90	0.3	
MW-20	11/06/02	5.70	0.10	--	--	4.2	<0.25	610.00	0.3	
MW-20	06/11/03	15.00	<0.01	--	--	7.30	<0.25	2200.00	0.2	
MW-20	09/17/03	14.00	<0.010	--	--	2.00	<0.25a	1800.00	0.5	
MW-20	11/20/03	13.00	0.15	--	--	1.70	<0.25a	1900.00	<0.1	
MW-20	02/25/04	14.00	0.026	--	--	0.34	<0.25b	2100.00	--**	
MW-20	05/11/04	7.50	0.048	--	--	0.29	<0.25	2100.00	<0.10	
MW-20	08/26/04	2.00	16.00	--	--	140.00	<0.25	970.00	<0.10	
MW-20	12/15/04	3.34	0.71	--	--	27.00	<0.25	550.00	0.28	

Table 3
Groundwater Natural Attenuation Parameters

 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-20	03/09/05	2.82	0.25	--	--	18.00	<0.25	470.00	<0.10	
MW-20	06/08/05	2.50	10.00	--	--	18.00	<0.25	480.00	0.20	
MW-20	12/14/05	3.20	0.28	--	--	15.00	<0.25	250.00	0.21	
MW-20	03/14/06	3.20	0.98	--	--	5.50	<0.25	56.00	<0.10	
MW-20	06/07/06	1.00	15.00	--	--	7.40	<0.25	68.00	<0.10	
MW-20	09/13/06	2.50	23.00	--	--	17.00	<0.25	110.00	<0.10	
MW-20	12/13/06	2.30	3.3	--	--	2.30	<0.25	69.00	<0.10	
MW-20	06/20/07	4.10	--	--	--	--	--	--	--	
MW-20	06/05/08	2.30	--	--	--	--	--	--	--	
MW-20	06/02/09	0.40	--	--	--	--	--	--	--	
MW-20	06/09/10	0.00	--	--	--	--	--	--	--	
MW-20	05/23/11	0.00	--	--	--	--	--	--	--	
MW-20	05/31/12	0.00	--	--	--	--	--	--	--	
MW-21	02/19/03	6.90	0.061	--	--	1.9	<0.25	1400	<0.1	
MW-21	11/20/03	0.90	0.013	--	--	2.80	<0.25a	17.00	0.5	
MW-21	02/26/04	1.00	12.00	--	--	17.00	<0.25b	12.00	0.9	
MW-21	05/11/04	1.80	4.70	--	--	12.00	<0.25	0.92	<0.10	
MW-21	08/26/04	2.80	2.00	--	--	1.80	<0.25	<0.50	0.13	
MW-21	03/09/05	0.99	4.30	--	--	9.80	<0.25	<0.50	<0.10	
MW-21	06/08/05	3.50	1.80	--	--	11.00	<0.25	1.20	0.5	
MW-21	09/21/05	2.40	15.00	--	--	7.20	<0.25	<0.50	0.14	
MW-21	12/14/05	1.20	18.00	--	--	0.19	<0.25	5.30	0.18	
MW-21	03/14/06	1.20	<0.010	--	--	0.10	<0.25	3.20	<0.10	
MW-21	06/07/06	1.20	1.70	--	--	9.90	<0.25	2.30	0.37	
MW-21	03/27/07	0.90	--	--	--	--	--	--	--	
MW-21	06/20/07	2.10	9.10	--	--	4.20	<0.25	<0.50	<0.10	
MW-21	09/24/07	2.50	--	--	--	--	--	--	--	
MW-21	12/11/07	2.60	--	--	--	--	--	--	--	
MW-21	03/04/08	2.50	--	--	--	--	--	--	--	
MW-21	06/04/08	2.80	14.00	--	--	7.40	<0.25	<0.50	0.13	
MW-21	09/08/08	0.77	--	--	--	--	--	--	--	
MW-21	12/05/08	1.24	--	--	--	--	--	--	--	
MW-21	03/04/09	0.84	--	--	--	--	--	--	--	
MW-21	06/02/09	1.29	7.10	--	--	4.00	<0.25	3.90	0.23	
MW-21	09/22/09	0.79	--	--	--	--	--	--	--	
MW-21	11/17/09	2.17	--	--	--	--	--	--	--	
MW-21	03/09/10	1.03	--	--	--	--	--	--	--	

Table 3
Groundwater Natural Attenuation Parameters

 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-21	11/15/10	0.72	--	--	--	--	--	--	--	
MW-21	03/01/11	0.11	--	--	--	--	--	--	--	
MW-21	05/24/11	0.41	0.85	--	--	0.11	ND	4.30	0.10	
MW-21	08/29/11	0.55	--	--	--	--	--	--	--	
MW-21	12/01/11	1.16	--	--	--	--	--	--	--	
MW-21	03/01/12	0.79	--	--	--	--	--	--	--	
MW-21	05/31/12	0.00	0.24	--	--	0.092	<0.25	5.70	0.22	
MW-21	04/10/13	--	0.62	--	--	<0.050	0.70 *	4.2	<0.10	
MW-21	10/03/13	0.00	--	--	--	--	--	--	--	
MW-21	01/22/14	8.32	--	--	--	--	--	--	--	
MW-21	04/24/14	--	0.20	--	--	<0.050	<0.25	7.8	<0.10	
MW-22	02/13/02	6.70	0.3	--	--	10	<0.25	6.40	<0.1	
MW-22	05/21/02	4.40	1.2	--	--	9.1	<0.25	1.70	0.2	
MW-22	08/29/02	0.70	2.4	--	--	9.1	<0.25	2.20	0.2	
MW-22	11/05/02	1.60	1.1	--	--	5.6	<0.25	99.00	0.2	
MW-22	02/19/03	2.10	<0.01	--	--	4.7	<0.25	120	0.1	
MW-22	06/10/03	1.30	0.087	--	--	5.00	0.64	110.00	0.5	
MW-22	09/16/03	2.40	2.0	--	--	55.00	<0.25b	230.00	1.6	
MW-22	11/19/03	6.60	0.056	--	--	2.30	<0.25b	100.00	0.4	
MW-22	02/25/04	8.20	<0.01	--	--	2.40	0.38b	43.00	0.4	
MW-22	05/11/04	5.10	<0.010	--	--	0.48	0.87	36.00	<0.10	
MW-22	08/25/04	2.72	1.4	--	--	2.70	0.33	59.00	--*b	
MW-22	12/14/04	1.35	3.2	--	--	5.50	1.20	65.00	<0.10	
MW-22	03/10/05	1.40	0.38	--	--	9.20	0.49	23.00	0.61	
MW-22	06/07/05	4.20	0.53	--	--	6.30	<0.25	25.00	0.7	
MW-22	09/20/05	3.70	0.86	--	--	27.00	<0.25	24.00	0.16	
MW-22	12/13/05	2.10	3.8	--	--	12.00	<0.25	25.00	3.0	
MW-22	03/15/06	2.10	0.033	--	--	4.40	<0.25	14.00	<0.10	
MW-22	06/08/06	2.60	0.62	--	--	4.50	<0.25	17.00	0.19	
MW-22	09/12/06	2.60	2.2	--	--	4.50	<0.25	19.00	0.11	
MW-22	12/12/06	0.90	0.010	--	--	2.20	<0.25	7.3	<0.10	
MW-22	06/19/07	1.80	--	--	--	--	--	--	--	
MW-22	06/04/08	2.60	--	--	--	--	--	--	--	
MW-22	06/02/09	0.50	--	--	--	--	--	--	--	
MW-22	06/09/10	0.00	--	--	--	--	--	--	--	
MW-22	09/09/10	0.36	--	--	--	--	--	<0.50	--	
MW-22	05/23/11	0.00	--	--	--	--	--	--	--	

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 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-22	05/31/12	0.00	--	--	--	--	--	--	--	
MW-23	02/25/04	1.60	12	--	--	15	<0.25b	13.00	0.4	
MW-23	05/12/04	1.80	13	--	--	19	<0.25	3.60	0.16	
MW-23	08/26/04	1.41	10	--	--	14	<0.25	21.00	0.11	
MW-23	12/13/05	2.30	16	--	--	1.2	<0.25	<0.50	0.25	
MW-23	03/15/06	2.30	17	--	--	20	<0.25	<0.50	0.23	
MW-23	06/08/06	1.10	18	--	--	18	<0.25	<0.50	0.20	
MW-23	12/12/06	1.90	27	--	--	27	<0.25	<0.50	0.24	
MW-23	03/27/07	2.40	--	--	--	--	--	--	--	
MW-23	06/19/07	1.20	13	--	--	18	<0.25	<1.0	0.19	
MW-23	09/25/07	2.90	--	--	--	--	--	--	--	
MW-23	12/11/07	2.77	--	--	--	--	--	--	--	
MW-23	03/04/08	2.40	--	--	--	--	--	--	--	
MW-23	06/04/08	1.70	12	--	--	63	<0.25	1.0	0.48	
MW-23	12/04/08	0.53	--	--	--	--	--	--	--	
MW-23	03/04/09	0.80	--	--	--	--	--	--	--	
MW-23	06/02/09	0.42	9.5	--	--	17	<0.25	57	0.92	
MW-23	09/21/09	0.60	--	--	--	--	--	--	--	
MW-23	11/16/09	0.43	--	--	--	--	--	--	--	
MW-23	03/08/10	0.26	--	--	--	--	--	--	--	
MW-23	06/08/10	0.15	11.00	--	--	22.00	<0.25	4.20	0.52	
MW-23	09/10/10	3.49	--	--	--	--	--	--	--	
MW-23	11/16/10	0.46	--	--	--	--	--	--	--	
MW-23	03/02/11	0.00	--	--	--	--	--	--	--	
MW-23	05/24/11	0.33	14.00	--	--	31.00	<0.25	0.80	0.10	
MW-23	08/30/11	1.10	--	--	--	--	--	--	--	
MW-23	12/02/11	0.89	--	--	--	--	--	--	--	
MW-23	03/02/12	0.65	--	--	--	--	--	--	--	
MW-23	05/30/12	0.00	5.50	--	--	41.00	<0.25	74.00	0.38	
MW-23	04/10/13	--	1.9	--	--	92	<0.25	1,000	<0.10	
MW-23	10/02/13	0.00	--	--	--	--	--	--	--	
MW-23	01/21/14	5.42	--	--	--	--	--	--	--	
MW-23	04/23/14	--	3.1	--	--	23	<0.25	470	<0.10	
MW-24	02/25/04	1.70	15	--	--	22	<0.25b	6.40	0.3	
MW-24	03/15/06	--	25	--	--	46	<0.25	<0.50	0.23	
MW-24	06/08/06	1.60	7.6	--	--	9.1	<0.25	<0.50	0.42	
MW-24	12/12/06	2.30	16	--	--	3.2	<0.25	<0.50	0.31	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-24	03/27/07	2.20	--	--	--	--	--	--	--	
MW-24	06/19/07	1.40	15	--	--	68	<0.25	<0.50	1.7	
MW-24	09/25/07	2.30	--	--	--	--	--	--	--	
MW-24	12/11/07	1.19	--	--	--	--	--	--	--	
MW-24	03/04/08	2.20	--	--	--	--	--	--	--	
MW-24	06/04/08	2.10	15	--	--	17	<0.25	7.4	0.85	
MW-24	09/08/08	1.38	--	--	--	--	--	--	--	
MW-24	12/05/08	0.33	--	--	--	--	--	--	--	
MW-24	03/04/09	0.83	--	--	--	--	--	--	--	
MW-24	06/02/09	0.46	12	--	--	37	<0.25	<0.50	<0.10	
MW-24	09/21/09	0.77	--	--	--	--	--	--	--	
MW-24	11/16/09	0.78	--	--	--	--	--	--	--	
MW-24	03/08/10	0.29	--	--	--	--	--	--	--	
MW-24	06/08/10	0.00	12.00	--	--	35.00	<0.25	<0.50	0.23	
MW-24	09/10/10	3.70	--	--	--	--	--	--	--	
MW-24	11/16/10	0.47	--	--	--	--	--	--	--	
MW-24	03/02/11	0.00	--	--	--	--	--	--	--	
MW-24	05/24/11	0.53	12.00	--	--	26.00	<0.25	0.78	0.11	
MW-24	08/30/11	0.39	--	--	--	--	--	--	--	
MW-24	12/02/11	0.48	--	--	--	--	--	--	--	
MW-24	03/02/12	1.52	--	--	--	--	--	--	--	
MW-24	05/30/12	0.00	7.50	--	--	31.00	<0.25	2.40	0.15	
MW-24	04/10/13	--	19	--	--	35	<0.25	1.0	<0.10	
MW-24	10/02/13	0.00	--	--	--	--	--	--	--	
MW-24	01/22/14	0.00	--	--	--	--	--	--	--	
(DUP-1)										
MW-24	04/23/14	--	13	--	--	52	0.95	2.3	<0.10	
MW-25	02/26/04	1.30	1.5	--	--	27	<0.25b	120.00	0.9	
MW-25	05/12/04	1.90	2.0	--	--	12	<0.25	140.00	0.10	
MW-25	08/26/04	1.78	1.7	--	--	5.4	<0.25	380.00	0.13	
MW-25	12/14/04	2.10	0.40	--	--	2.7	<0.25	370.00	<0.10	
MW-25	03/10/05	2.10	2.0	--	--	3.5	<0.25	180.00	0.21	
MW-25	06/07/05	1.75	2.2	--	--	4.7	<0.25	160.00	0.7	
MW-25	09/20/05	1.30	0.91	--	--	1.8	<0.25	270.00	0.12	
MW-25	12/13/05	2.50	1.8	--	--	1.8	<0.25	140.00	0.23	
MW-25	03/15/06	2.50	0.92	--	--	4.6	<0.25	210.00	0.38	
MW-25	06/08/06	1.20	1.9	--	--	6.5	<0.25	120.00	0.13	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-25	09/12/06	1.80	0.84	--	--	5.9	<0.25	250.00	<0.10	
MW-25	12/12/06	2.10	1.6	--	--	15	<0.25	400.00	<0.10	
MW-25	06/19/07	2.10	--	--	--	--	--	--	--	
MW-25	06/04/08	2.40	--	--	--	--	--	--	--	
MW-25	06/02/09	0.62	--	--	--	--	--	--	--	
MW-25	06/09/10	0.00	--	--	--	--	--	--	--	
MW-25	05/25/11	1.17	--	--	--	--	--	--	--	
MW-25	06/01/12	0.00	--	--	--	--	--	--	--	
SH-02	12/20/00	--	5.40	--	--	0.86	0.040	14.00	0.32	
SH-02	Destroyed during construction activities									
SH-02R	02/13/02	1.20	<0.01	--	--	0.60	<0.25	9.70	0.20	
SH-02R	05/21/02	4.50	3.50	--	--	8.10	<0.25	6.70	<0.1	
SH-02R	08/28/02	1.50	4.90	--	--	17.00	<0.25	3.80	<0.1	
SH-02R	11/05/02	2.10	6.10	--	--	20.00	<0.25	13.00	<0.1	
SH-02R	02/19/03	2.50	0.29	--	--	2.40	0.33	10.00	0.60	
SH-02R	06/10/03	1.30	1.40	--	--	5.10	<0.25	6.80	0.30	
SH-02R	09/16/03	1.90	5.20	--	--	19.00	<0.25b	5.10	0.40	
SH-02R	11/19/03	1.10	1.50	--	--	4.60	0.34b	7.10	0.20	
SH-02R	02/25/04	3.40	5.00	--	--	14.00	0.46b	5.20	0.40	
SH-02R	05/12/04	2.00	3.20	--	--	7.40	<0.25	4.40	<0.10	
SH-02R	08/26/04	2.24	2.10	--	--	3.80	<0.25	5.80	<0.10	
SH-02R	12/15/04	1.98	0.092	--	--	0.055	0.44	100.00	<0.10	
SH-02R	03/09/05	1.59	0.38	--	--	1.50	<0.25	380.00	<0.10	
SH-02R	06/08/05	1.00	1.20	--	--	0.11	<0.25	110.00	<0.2	
SH-02R	09/21/05	1.50	4.40	--	--	0.72	<0.25	31.00	<0.10	
SH-02R	12/14/05	0.70	2.20	--	--	0.28	<0.25	11.00	<0.10	
SH-02R	03/14/06	0.70	0.42	--	--	1.40	<0.25	25.00	<0.10	
SH-02R	06/07/06	0.90	3.10	--	--	4.40	<0.25	20.00	<0.10	
SH-02R	09/13/06	1.70	3.90	--	--	5.50	<0.25	24.00	<0.10	
SH-02R	12/13/06	0.90	0.38	--	--	1.30	0.34	10.00	<0.10	
SH-02R	06/20/07	2.00	--	--	--	--	--	--	--	
SH-02R	06/05/08	3.10	--	--	--	--	--	--	--	
SH-02R	06/02/09	0.25	--	--	--	--	--	--	--	
SH-02R	06/08/10	0.24	--	--	--	--	--	--	--	
SH-02R	05/23/11	0.41	--	--	--	--	--	--	0.0050	
SH-02R	06/01/12	0.00	--	--	--	--	--	--	0.0050	
SH-02R	04/09/13	--	--	--	--	--	--	--	<0.10	

Table 3

Groundwater Natural Attenuation Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
SH-05	12/20/00	--	0.010	--	--	1.80	0.14	6.00	<0.01	
SH-05R	05/21/02	3.90	1.50	--	--	10.00	<0.25	16.00	0.30	
SH-05R	08/28/02	1.40	1.00	--	--	11.00	<0.25	1.40	0.50	
SH-05R	11/05/02	1.50	1.20	--	--	17.00	<0.25	6.30	<0.1	
SH-05R	02/19/03	2.60	2.90	--	--	32.00	<0.25	28.00	<0.1	
SH-05R	06/10/03	1.40	1.50	--	--	33.00	<0.25	2.80	0.60	
SH-05R	09/16/03	1.20	1.60	--	--	41.00	<0.25b	0.46	0.90	
SH-05R	11/19/03	3.10	1.60	--	--	36.00	<0.25b	71.00	0.50	
SH-05R	02/25/04	2.50	0.56	--	--	0.087	0.76b	120.00	0.20	
SH-05R	05/12/04	1.12	2.10	--	--	16.00	<0.25	4.60	<0.10	
SH-05R	08/26/04	1.96	2.00	--	--	6.40	<0.25	0.63	<0.10	
SH-05R	12/15/04	2.80	3.70	--	--	26.00	<0.25	26.00	<0.10	
SH-05R	03/09/05	2.56	3.40	--	--	2.00	<0.25	7.50	<0.10	
SH-05R	06/08/05	2.50	3.80	--	--	19.00	<0.25	30.00	<0.2	
SH-05R	09/21/05	0.80	3.10	--	--	9.10	<0.25	<0.50	<0.10	
SH-05R	12/14/05	2.30	5.40	--	--	23.00	<0.25	16.00	<0.10	
SH-05R	03/14/06	2.30	0.11	--	--	0.087	<0.25	35.00	<0.10	
SH-05R	06/07/06	1.20	1.90	--	--	8.40	0.34	21.00	<0.10	
SH-05R	09/13/06	1.40	2.20	--	--	7.40	<0.25	<0.50	<0.10	
SH-05R	12/13/06	2.70	0.14	--	--	0.11	2.10	100.00	<0.10	
SH-05R	06/20/07	0.90	--	--	--	--	--	--	--	
SH-05R	06/05/08	2.90	--	--	--	--	--	--	--	
SH-05R	06/02/09	1.01	--	--	--	--	--	--	--	
SH-05R	06/08/10	0.00	--	--	--	--	--	--	--	
SH-05R	05/23/11	1.39	--	--	--	--	--	--	0.0050	
MW-07R	02/13/02	3.00	0.078	--	--	5.00	<0.25	8.30	0.20	
MW-07R	05/21/02	3.50	0.22	--	--	3.50	<0.25	3.80	0.20	
MW-07R	08/28/02	1.60	0.17	--	--	6.90	<0.25	9.00	0.10	
MW-07R	11/05/02	1.60	0.16	--	--	12.00	<0.25	2.70	<0.1	
MW-07R	09/16/03	1.40	0.26	--	--	26.00	<0.25b	9.10	1.60	
MW-07R	11/19/03	2.20	0.017	--	--	4.90	0.77b	14.00	0.30	
MW-07R	02/25/04	2.10	<0.01	--	--	1.80	0.42b	5.70	0.30	
MW-07R	05/12/04	2.49	<0.010	--	--	2.20	0.74	3.40	<0.10	
MW-07R	08/26/04	2.05	0.011	--	--	0.12	<0.25	12.00	<0.10	
MW-07R	12/15/04	2.00	0.034	--	--	1.40	0.36	10.00	<0.10	
MW-07R	03/09/05	2.15	0.030	--	--	4.20	<0.25	120.00	<0.10	
MW-07R	06/08/05	1.98	<0.010	--	--	0.25	0.89	5.70	<0.2	

Table 3

Groundwater Natural Attenuation Parameters
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 2720 13th Avenue Southwest
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-07R	09/21/05	2.80	0.13	--	--	<0.050	<0.25	15.00	<0.10	
MW-07R	12/14/05	1.50	<0.010	--	--	<0.050	0.29	5.70	<0.10	
MW-07R	03/14/06	1.50	0.23	--	--	2.30	0.51	8.90	<0.10	
MW-07R	06/07/06	2.20	<0.010	--	--	0.28	2.40	3.90	<0.10	
MW-07R	09/13/06	1.20	0.26	--	--	3.40	<0.25	8.50	<0.10	
MW-07R	12/13/06	1.90	<0.010	--	--	<0.050	1.90	23.00	<0.10	
MW-07R	06/20/07	1.70	--	--	--	--	--	--	--	
MW-07R	06/05/08	1.90	--	--	--	--	--	--	--	
MW-07R	06/02/09	1.29	--	--	--	--	--	--	--	
MW-07R	06/08/10	1.11	--	--	--	--	--	--	--	
MW-07R	05/23/11	3.20	--	--	--	--	--	--	0.0050	
MW-07R	06/01/12	1.03	--	--	--	--	--	--	0.0050	
MW-07R	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-07R	04/23/14	--	--	--	--	--	--	--	<0.10	
TMW-B1	06/09/10	1.06	--	--	--	--	--	3.60	--	
TMW-B1	09/09/10	0.25	--	--	--	--	--	<0.50	--	
TMW-B1	05/25/11	1.51	--	--	--	--	--	--	--	
TMW-B1	12/02/11	0.33	--	--	--	--	--	--	--	
TMW-B1	03/01/12	0.30	--	--	--	--	--	--	--	
TMW-B1	10/02/13	0.00	--	--	--	--	--	--	--	
TMW-1	06/21/13	--	--	--	--	--	0.41 *	11	<0.10	Baseline monitoring event
TMW-1	07/30/13	--	0.075	10	<0.30	--	0.28	1,900	<0.10	
TMW-1	10/03/13	2.92	0.081	13	5.2	--	<0.50 *	980	<0.10	
TMW-1	01/22/14	9.27	--	--	--	--	--	450	<0.10	
TMW-1	04/21/14	--	--	--	--	--	<0.25	670	<0.10	
TMW-2	06/21/13	--	--	--	--	--	<0.25 *	0.83	<0.10	Baseline monitoring event
TMW-2	07/30/13	--	17	29	1.2	--	<0.25	6.4	<0.10	
TMW-2	10/03/13	0.00	15	160	110	--	<0.50 *	2,000	<0.10	
TMW-2	01/22/14	6.12	--	--	--	--	--	3,000	<0.10	
TMW-2	04/21/14	--	--	--	--	--	<0.25	2,600	<0.10	
TMW-3	06/24/13	--	--	--	--	--	<0.25	4.4	<0.10	Baseline monitoring event
TMW-3	07/30/13	--	2.6	10	<0.30	--	<0.25	3.1	<0.10	
TMW-3	10/03/13	0.00	3.8	43	18	--	<0.50 *	1,100	<0.10	
TMW-3	01/22/14	0.00	--	--	--	--	--	3,800	<0.10	

Table 3

Groundwater Natural Attenuation Parameters
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 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
TMW-3	04/24/14	--	--	--	--	--	<0.25	2,500	<0.10	
TMW-4	06/24/13	--	--	--	--	--	<0.25	32	0.11	Baseline monitoring event
TMW-4	07/30/13	--	13	24	5.0	--	0.48	1.4	0.11	
TMW-4	10/03/13	0.00	16	410	17	--	0.36 J*	2,800	<0.10	
TMW-4	01/22/14	0.00	--	--	--	--	--	2,800	<0.10	
TMW-4	04/24/14	--	--	--	--	--	<0.25	1,400	<0.10	
TMW-5	06/21/13	--	--	--	--	--	<0.25 *	4.3	<0.10	Baseline monitoring event
TMW-5	07/30/13	--	7.6	11	<0.30	--	<0.25	0.67	0.25	
TMW-5	10/03/13	0.00	5.6	39	16	--	<0.50 *	2,500	0.10	
TMW-5	01/22/14	7.18	--	--	--	--	--	2,600	0.10	
TMW-5	04/24/14	--	--	--	--	--	<0.25	4,000	<0.10	
TMW-6	06/24/13	--	--	--	--	--	<0.25	16	0.14	Baseline monitoring event
TMW-6	07/30/13	--	5.4	13	2.4	--	<0.25	5.0	0.14	
TMW-6	10/03/13	0.00	5.6	290	250	--	<0.50 *	1,700	<0.10	
TMW-6	01/22/14	3.60	--	--	--	--	--	2,300	<0.10	
TMW-6	04/24/14	--	--	--	--	--	<0.25	1,800	<0.10	
SN-02R	04/23/14	--	--	--	--	--	--	--	<0.10	

Notes:

< = Denotes compound was not detected at designated detection limit.

Bold = Concentration detected above the laboratory reporting limit.

mg/l = Milligrams per liter (parts per million)

-- = Not analyzed for this parameter

** = Analysis could not be run due to excess particulate matter.

*a = Lab received broken VOA, not able to run analysis

*b = Lab did not receive sample container to run analysis

a = The lab analyzed these samples for nitrate and sulfate together, using non-preserved samples (submitted for sulfate analysis). Holding time for non-preserved samples for nitrate analysis is 48 hours and for sulfate analysis is 28 days. These samples were received within the 48-hour holding time.

b = The lab analyzed these samples for nitrate only, using sulfuric acid preserved samples (submitted for nitrate analysis). Holding time for preserved samples for nitrate analysis is 28 days. The lab analyzed these for nitrate because non-preserved samples were received outside of 48 hours.

Table 4



Performance Monitoring Parameters

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Sample ID	Date	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	TPH- Gasoline mg/l	TPH-Diesel mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
11	06/24/13	--	--	--	<0.25	2.5	<0.10	<0.25	0.30	<0.00050	<0.00050	<0.00050	<0.00050
11	07/30/13	0.42	1.0	<0.30	<0.25	0.88	<0.10	<0.25	--	--	--	--	--
11	08/26/13	--	--	--	--	0.71	--	<0.25	--	--	--	--	--
11	10/03/13	0.046	5.2	0.78	1.2 *	560	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
11	01/22/14	--	--	--	--	120	<0.10	0.75	--	<0.00050	<0.00050	<0.00050	<0.00050
11	04/21/14	--	--	--	1.1	580	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
12	06/24/13	--	--	--	<0.25	<0.50	<0.10	4.1	5.3	0.037	0.045	0.130	0.530
12	07/30/13	--	--	--	--	--	--	--	--	--	--	--	--
12	08/26/13	--	--	--	--	1,900	--	9.3	--	--	--	--	--
12	10/03/13	2.2	39	35	1.1 *	5,500	<0.10	2.7	--	0.002	0.0057	0.043	0.180
12	01/22/14	--	--	--	--	3,000	<0.10	4.2	--	0.0020	0.0057	0.043	0.180
12	04/21/14	--	--	--	<0.25	1,700	0.22	2.6	--	0.015	0.014	0.088	0.150
A-27	06/21/13	--	--	--	<0.25 *	2.7	<0.10	1.0	0.40	0.053	0.0024	0.043	0.0083
A-27	07/30/13	--	--	--	--	--	--	1.5	--	0.058	0.0033	0.040	0.015
A-27	07/30/13	6.2	16	3.6	16	<0.50	<0.10	1.8	--	0.073	0.0039	0.051	0.017
A-27	08/26/13	--	--	--	--	<0.50	--	1.9	--	--	--	--	--
A-27	08/26/13	--	--	--	--	--	--	2.1	--	--	--	--	--
A-27	10/02/13	7.4	14	3.6	<0.50 *	<0.50	<0.10	1.9	--	0.066	0.0041	0.038	0.021
A-27	01/22/14	--	--	--	--	<0.50	<0.10	2.6	--	0.078	0.0042	0.061	0.062
A-27	04/22/14	2.9	--	2.4	<0.25	4.2	<0.10	2.9	--	0.062	0.0023	0.074	0.078
MW-7	06/21/13	--	--	--	<0.25 *	3.2	<0.10	4.0	0.27	0.0059	0.064	0.280	1.1
MW-7	07/30/13	20	4.6	<0.30	<0.25	4.1	<0.10	7.2	--	0.016	0.110	0.290	1.6
MW-7	08/26/13	--	--	--	--	1,100	--	7.1	--	--	--	--	--
MW-7	10/03/13	20	170	140	0.81 *	3,100	<0.10	2.8	--	0.016	0.033	0.150	0.540
MW-7	01/22/14	--	--	--	--	2,100	0.23	2.1	--	0.014	0.010	0.130	0.170
MW-7	04/21/14	7.9	--	15	0.29	1,200	0.18	1.9	--	0.013	0.0093	0.110	0.200
MW-7	04/21/14	--	--	--	--	--	--	2.4	--	0.015	0.012	0.130	0.250

Table 4



Performance Monitoring Parameters

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Sample ID	Date	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	TPH- Gasoline mg/l	TPH-Diesel mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
MW-9	06/24/13	--	--	--	<0.25	5.3	0.11	0.33	0.37	0.014	<0.0005	<0.0005	0.0035
MW-9	07/30/13	14	2.0	<0.30	<0.25	72	<0.10	0.27	--	0.0017	<0.00050	0.00071	0.0060
MW-9	08/26/13	--	--	--	--	4.3	--	0.42	--	--	--	--	--
MW-9	10/03/13	18	3.8	1.5	<0.50 *	8.6	<0.10	0.30	--	0.0056	<0.00050	<0.00050	0.0092
MW-9	01/22/14	--	--	--	--	26	<0.10	<0.25	--	<0.0050	<0.00050	<0.00050	0.0013
MW-9	04/21/14	24	--	0.45	<0.25	300	<0.10	<0.25	--	0.017	<0.00050	<0.00050	<0.00050
MW-19	06/21/13	--	--	--	<0.25 *	<0.50	0.13	2.8	1.1	0.019	0.017	0.310	0.081
MW-19	07/30/13	--	--	--	--	--	--	4.4	--	0.0086	0.005	0.160	0.013
MW-19	08/26/13	--	--	--	--	<0.50	--	2.3	--	--	--	--	--
MW-19	10/03/13	--	--	--	--	--	--	3.2	--	0.0076	0.0023	0.046	0.0020
MW-19	01/22/14	--	--	--	--	620	--	2.2	--	0.021	0.00065	0.029	<0.00050
MW-19	04/21/14	28	--	30	<0.25	190	0.23	2.1	--	0.0066	0.0039	0.160	0.0064
TMW-1	06/21/13	--	--	--	0.41 *	11	<0.10	<0.25	<0.25	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	07/30/13	0.075	10	<0.30	0.28	1,900	<0.10	<0.25	--	--	--	--	--
TMW-1	08/26/13	--	--	--	--	470	--	<0.25	--	--	--	--	--
TMW-1	10/03/13	0.081	13	5.20	<0.50 *	980	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	01/22/14	--	--	--	--	450	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	04/21/14	--	--	--	<0.25	670	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-2	06/21/13	--	--	--	<0.25 *	0.83	<0.10	0.25	0.28	0.0075	0.00097	<0.0005	0.00068
TMW-2	07/30/13	17	29	1.2	<0.25	6.4	<0.10	0.26	--	--	--	--	--
TMW-2	08/26/13	--	--	--	--	61	--	0.64	--	--	--	--	--
TMW-2	10/03/13	15	160	110	<0.50 *	2,000	<0.10	0.50	--	0.013	0.00074	<0.00050	0.0024
TMW-2	01/22/14	--	--	--	--	2,000	<0.10	0.28	--	0.011	<0.00050	<0.00050	<0.00050
TMW-2	04/21/14	--	--	--	<0.25	2,600	<0.10	<0.25	--	<0.001 v	<0.001 v	<0.001 v	<0.001 v
TMW-3	06/24/13	--	--	--	<0.25	4.4	<0.10	0.86	0.85	<0.0005	0.00052	<0.0005	0.00087
TMW-3	07/30/13	2.6	10	<0.30	<0.25	3.1	<0.10	0.98	--	--	--	--	--
TMW-3	08/26/13	--	--	--	--	37	--	1.2	--	--	--	--	--
TMW-3	10/03/13	3.8	43	18	<0.50 *	1,100	<0.10	0.92	--	0.00057	0.00180	0.0076	0.0072
TMW-3	01/22/14	--	--	--	--	3,800	<0.10	0.75	--	<0.0010 v	0.0022	<0.0010o	<0.0010o

Table 4



Performance Monitoring Parameters

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

Sample ID	Date	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	TPH- Gasoline mg/l	TPH-Diesel mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
TMW-3	04/24/14	--	--	--	<0.25	2,500	<0.10	0.51	--	<0.00050	0.0046	0.0011	<0.00050
TMW-4	06/24/13	--	--	--	<0.25	32	0.11	4.9	2.5	0.170	0.084	0.230	0.950
TMW-4	07/30/13	13	24	5	0.48	1.4	0.11	5.1	--	--	--	--	--
TMW-4	08/26/13	--	--	--	--	2,200	--	9.2	--	--	--	--	--
TMW-4	10/03/13	16	410	17	<0.50 *	2,800	<0.10	4.7	--	0.130	0.120	0.290	1.300
TMW-4	01/22/14	--	--	--	--	2,800	<0.10	6.0	--	0.210	0.070	0.400	0.990
TMW-4	04/24/14	--	--	--	<0.25	1,400	<0.10	4.0	--	0.160	0.044	0.390	0.840
TMW-5	06/21/13	--	--	--	<0.25 *	4.3	<0.10	1.3	0.65	0.100	0.0097	0.022	0.020
TMW-5	07/30/13	7.6	11	<0.30	<0.25	0.67	0.25	4.3	--	--	--	--	--
TMW-5	08/26/13	--	--	--	--	980	--	4.2	--	--	--	--	--
TMW-5	10/03/13	5.6	39	16	<0.50 *	2,500	0.10	1.9	--	0.044	0.0063	0.0038	0.0088
TMW-5	01/22/14	--	--	--	--	2,600	0.10	1.9	--	0.0039	0.0031	0.0012	0.0023
TMW-5	04/24/14	--	--	--	<0.25	4,000	<0.10	1.4	--	<0.0015 v	0.0026	0.0017	0.0021
TMW-6	06/24/13	--	--	--	<0.25	16	0.14	4.9	1.8	0.067	0.0099	0.150	0.550
TMW-6	07/30/13	5.4	13	2.4	<0.25	5.0	0.14	7.8	--	--	--	--	--
TMW-6	08/26/13	--	--	--	--	340	--	8.5	--	--	--	--	--
TMW-6	10/03/13	5.6	290	250	<0.50 *	1,700	<0.10	5.4	--	0.028	0.010	0.180	0.420
TMW-6	01/22/14	--	--	--	--	2,300	<0.10	7.0	--	0.060	0.010	0.280	0.530
TMW-6	04/24/14	--	--	--	<0.25	1,800	<0.10	5.1	--	0.015	0.0036	0.190	0.370

Notes: < = Denotes compound was not detected at designated detection limit.

Bold = Concentration detected above the laboratory reporting limit.

mg/l = Milligrams per liter (parts per million)

-- = Not analyzed for this parameter

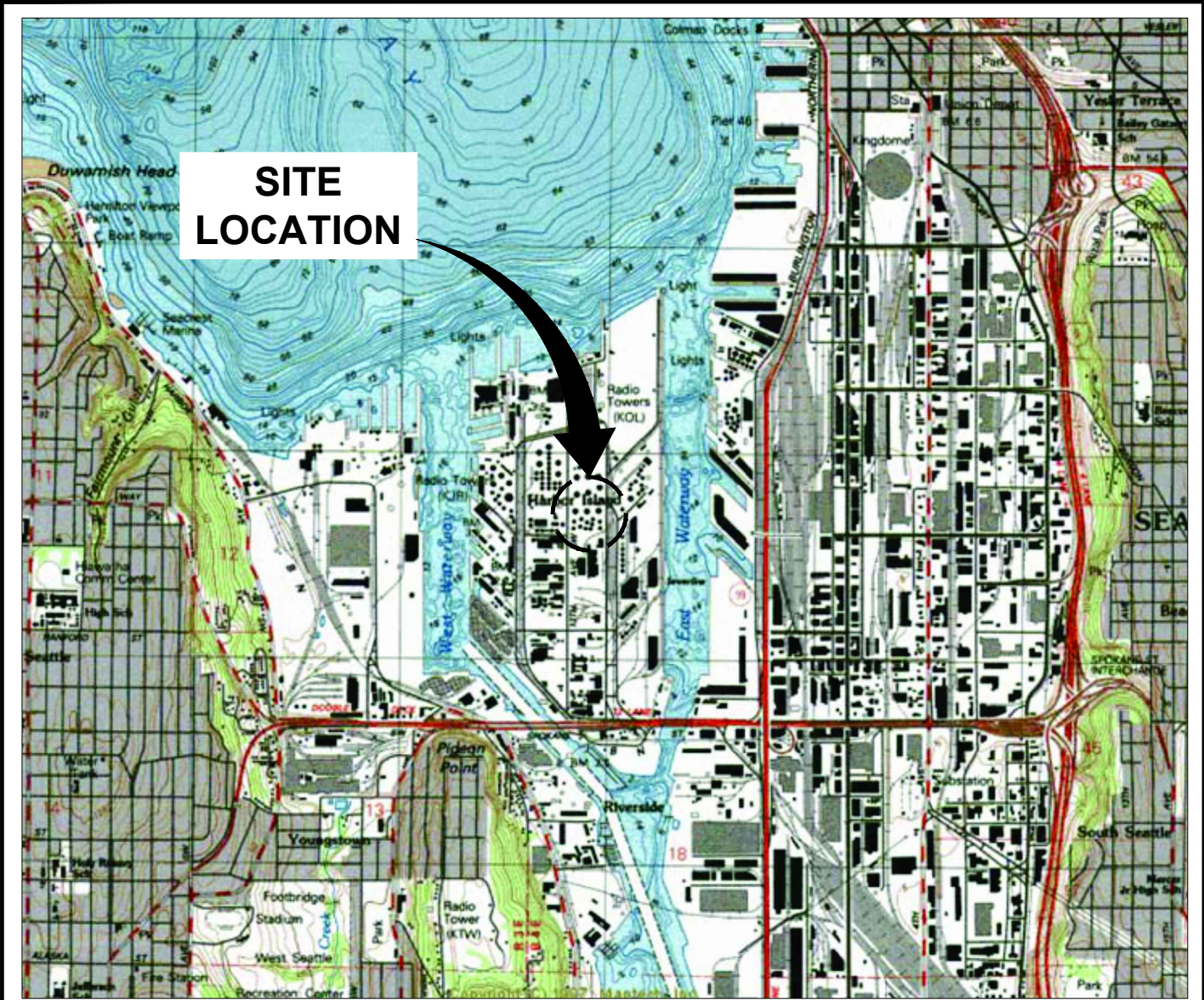
* = The lab analyzed nitrate using sulfuric acid preserved samples. Concentration may be biased high due to possible oxidation of nitrite to nitrate.

o = Reporting limit increased due to sample foaming

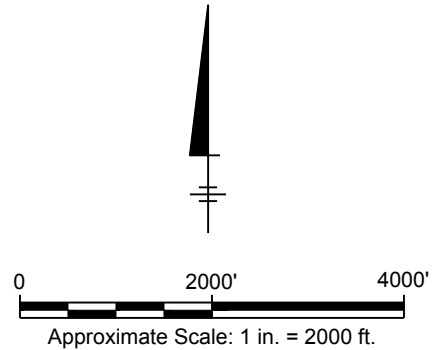
v = Reporting limit increased due to high concentration of target analytes


Figures

CITY:(Read) DIV/GROUP:(Read) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)ON="OFF"=REF-
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REFERENCE: BASE MAP USGS 7.5. MINUTE TOPOGRAPHIC MAP SEATTLE SOUTH, WASHINGTON 1083

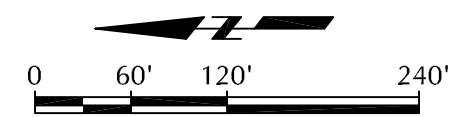
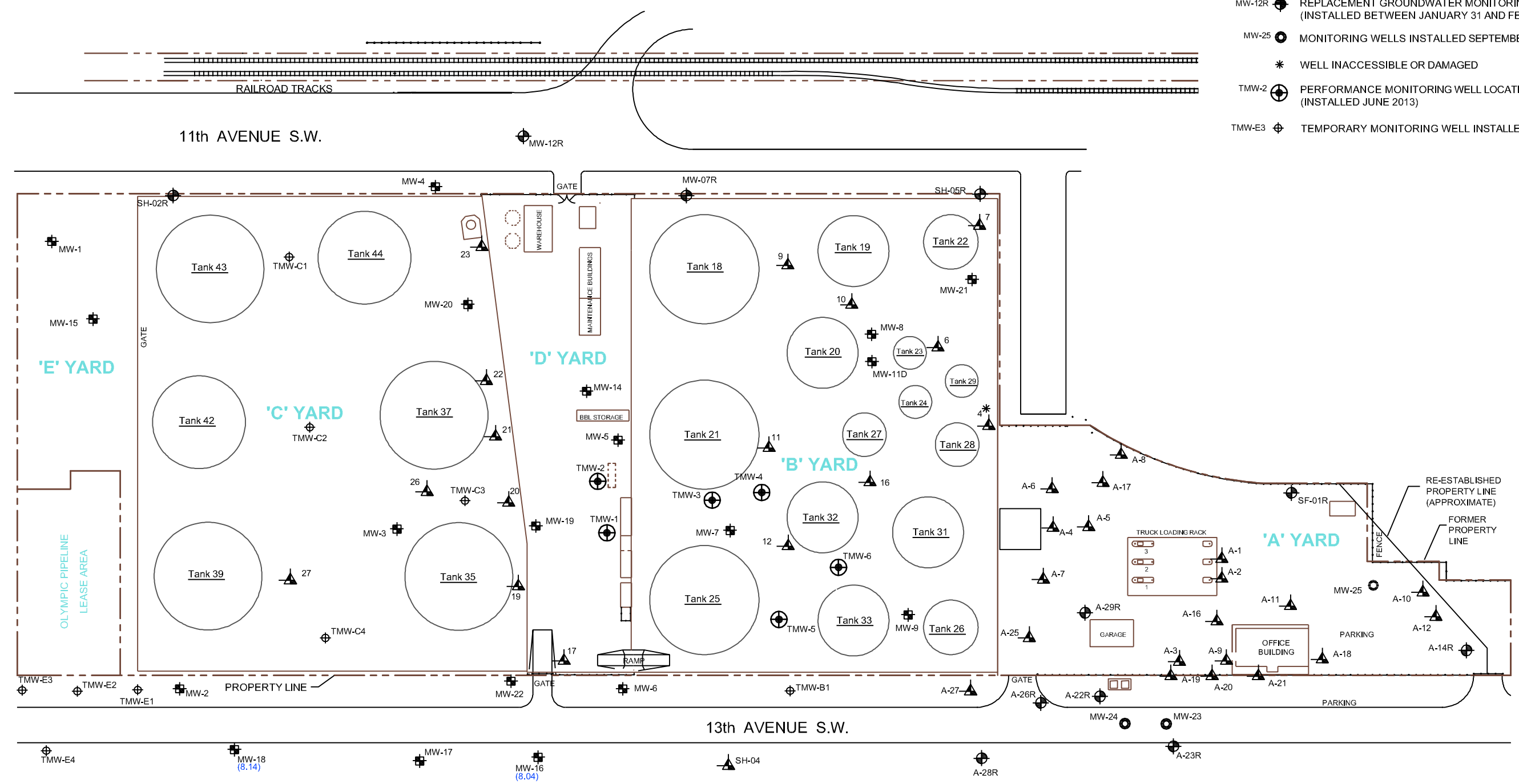


KINDER MORGAN LIQUID TERMINALS, LLC HARBOR ISLAND TERMINAL 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON SECOND QUARTER 2014 GROUNDWATER MONITORING REPORT	
SITE LOCATION MAP	
	FIGURE 1

CITY:\Read\ DIV\GROUP\F\Read\ DB\Read\ LD\Op\ PIC\Op\ PMS\Read\ TMS\Op\ Lyr\Option\Off\REF* G:\EN\CAD\Emeryville\AC1\TWA00804\2014\0003\20 GWFR\2014\DWG\TWA00804 B02.dwg
 LAYOUT: 2. SAVED: 6/9/2014 4:46 PM ACADVER: 18.1S (LMS TECH) PAGES: 18. PLOTTED: 6/9/2014 4:44 PM BY: REYES, ALEC

LEGEND

- SH-02 GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- * WELL INACCESSIBLE OR DAMAGED
- TMW-2 PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013



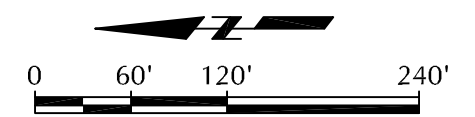
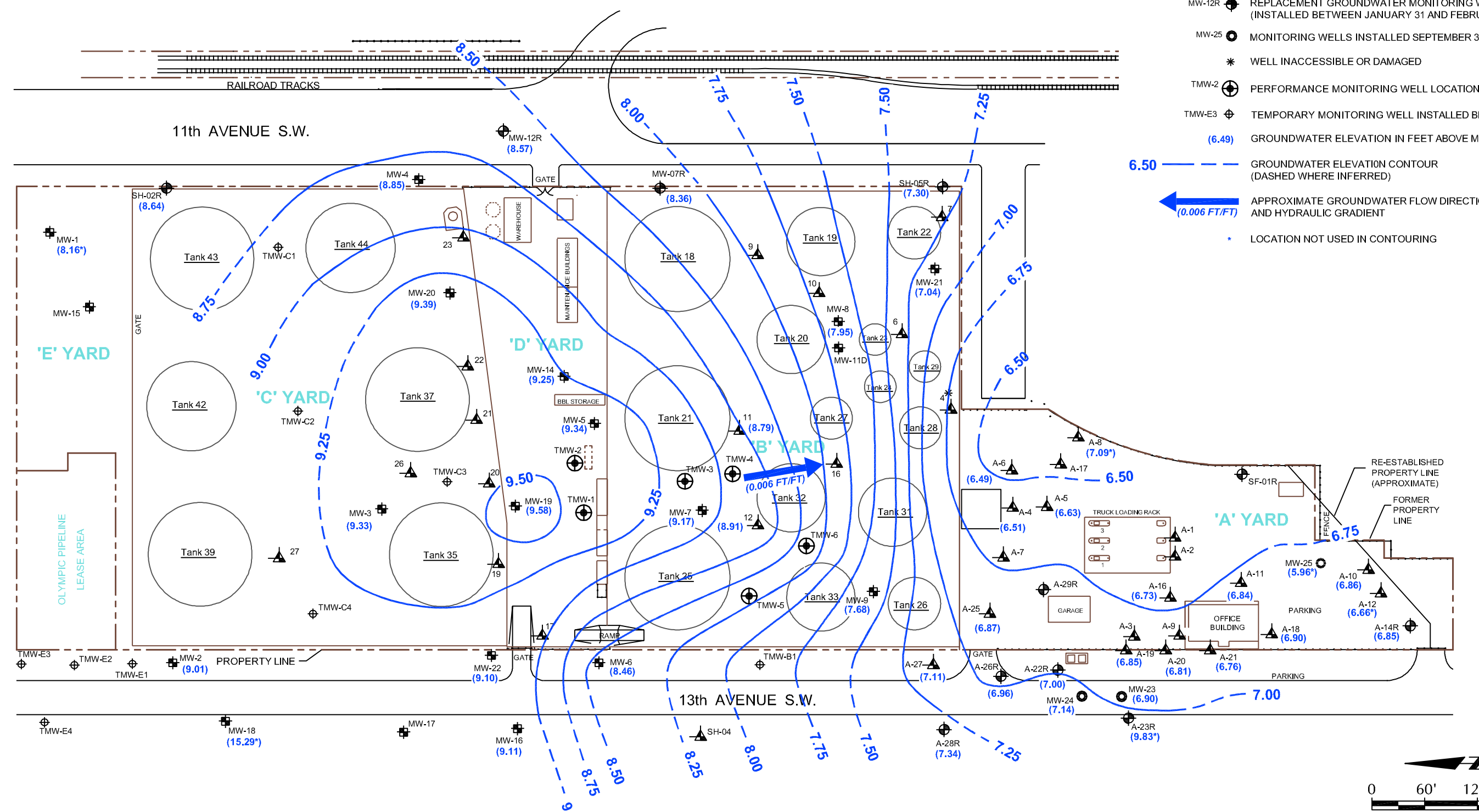
KINDER MORGAN LIQUID TERMINALS, LLC
 HARBOR ISLAND TERMINAL
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
SECOND QUARTER 2014
GROUNDWATER MONITORING REPORT

SITE PLAN

FIGURE
2

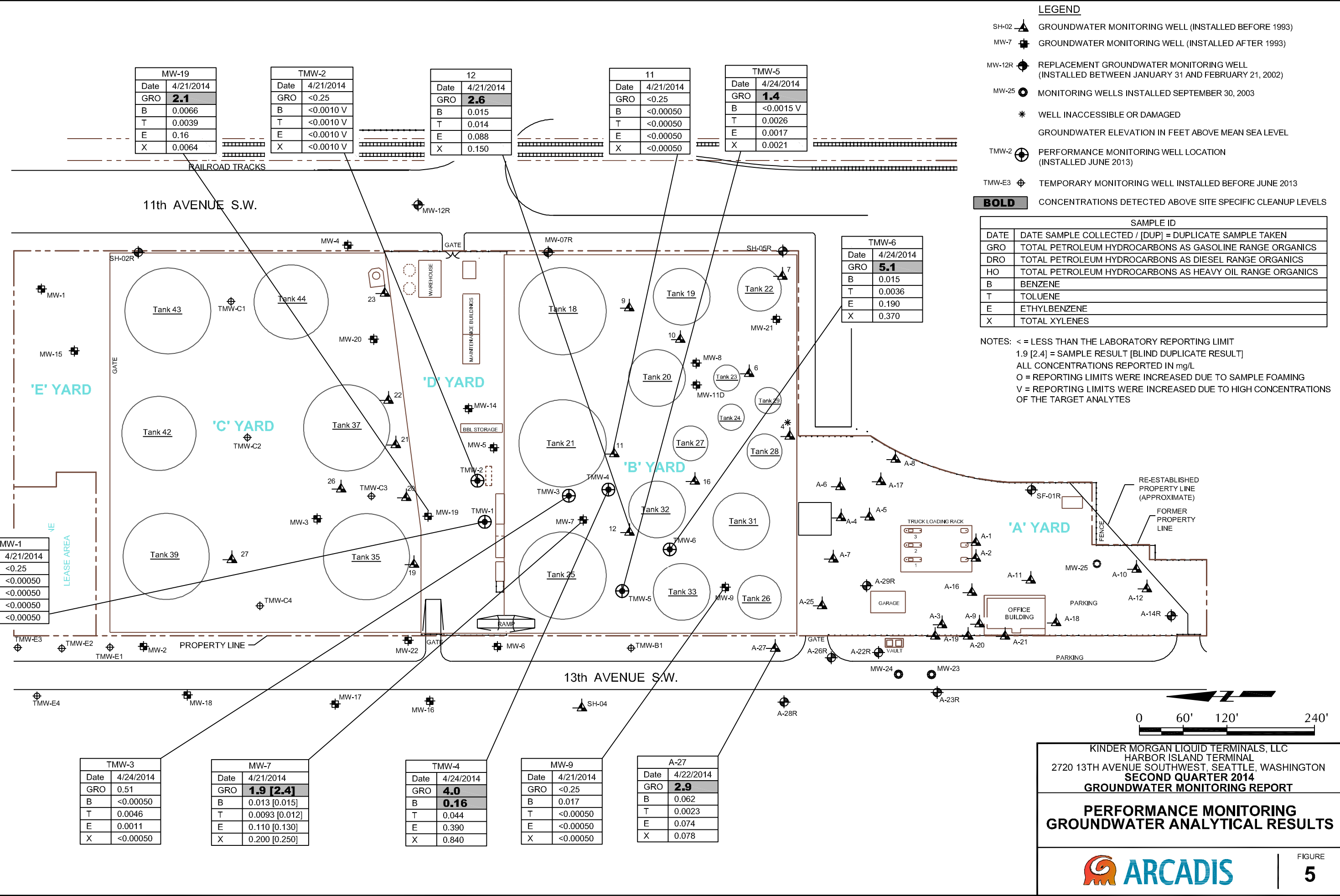
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 G:\EN\CAD\Emeryville\AC1\TMA00804\2014\00003\20 GW\R 2014\DWG\TMA00804\W03.dwg LAYOUT: 3. SAVED: 6/9/2014 4:47 PM ACADVER: 18.1S (LMS TECH) PAGES: 10 PAGESETUP: PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 6/19/2014 11:16 AM BY: REYES, ALEC

- LEGEND**
- SH-02 ▲ GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
 - MW-7 ■ GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
 - MW-12R ● REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
 - MW-25 ○ MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
 - * WELL INACCESSIBLE OR DAMAGED
 - TMW-2 ⊕ PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
 - TMW-E3 ⊕ TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
 - (6.49) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 6.50 - - - GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
 - ← (0.006 FT/FT) APPROXIMATE GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT
 - * LOCATION NOT USED IN CONTOURING



KINDER MORGAN LIQUID TERMINALS, LLC
 HARBOR ISLAND TERMINAL
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON
SECOND QUARTER 2014
GROUNDWATER MONITORING REPORT
GROUNDWATER ELEVATION CONTOURS
APRIL 22, 2014

CITY:\Read\ DW\GROUP\Read\ DB\Read\ PIC\Op\ PM\Read\ TM\Op\ Lyr\Option\OFF\REF* G:\ENVCAD\Emeryville\AC1\W000804\2014\1000030\GMMR\2014\DWG\W000804\W05.dwg
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MW-19	
Date	4/21/2014
GRO	2.1
B	0.0066
T	0.0039
E	0.16
X	0.0064

TMW-2	
Date	4/21/2014
GRO	<0.25
B	<0.0010 V
T	<0.0010 V
E	<0.0010 V
X	<0.0010 V

12	
Date	4/21/2014
GRO	2.6
B	0.015
T	0.014
E	0.088
X	0.150

11	
Date	4/21/2014
GRO	<0.25
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

TMW-5	
Date	4/24/2014
GRO	1.4
B	<0.0015 V
T	0.0026
E	0.0017
X	0.0021

TMW-6	
Date	4/24/2014
GRO	5.1
B	0.015
T	0.0036
E	0.190
X	0.370

TMW-1	
Date	4/21/2014
GRO	<0.25
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

TMW-3	
Date	4/24/2014
GRO	0.51
B	<0.00050
T	0.0046
E	0.0011
X	<0.00050

MW-7	
Date	4/21/2014
GRO	1.9 [2.4]
B	0.013 [0.015]
T	0.0093 [0.012]
E	0.110 [0.130]
X	0.200 [0.250]

TMW-4	
Date	4/24/2014
GRO	4.0
B	0.16
T	0.044
E	0.390
X	0.840

MW-9	
Date	4/21/2014
GRO	<0.25
B	0.017
T	<0.00050
E	<0.00050
X	<0.00050

A-27	
Date	4/22/2014
GRO	2.9
B	0.062
T	0.0023
E	0.074
X	0.078

LEGEND

- SH-02 ▲ GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 ■ GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R ● REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-25 ○ MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- * WELL INACCESSIBLE OR DAMAGED
- ▲ GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- TMW-2 ⊕ PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 ⊕ TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- BOLD** CONCENTRATIONS DETECTED ABOVE SITE SPECIFIC CLEANUP LEVELS

SAMPLE ID	
DATE	DATE SAMPLE COLLECTED / [DUP] = DUPLICATE SAMPLE TAKEN
GRO	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
DRO	TOTAL PETROLEUM HYDROCARBONS AS DIESEL RANGE ORGANICS
HO	TOTAL PETROLEUM HYDROCARBONS AS HEAVY OIL RANGE ORGANICS
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES

NOTES: < = LESS THAN THE LABORATORY REPORTING LIMIT
 1.9 [2.4] = SAMPLE RESULT [BLIND DUPLICATE RESULT]
 ALL CONCENTRATIONS REPORTED IN mg/L
 O = REPORTING LIMITS WERE INCREASED DUE TO SAMPLE FOAMING
 V = REPORTING LIMITS WERE INCREASED DUE TO HIGH CONCENTRATIONS OF THE TARGET ANALYTES



Attachment A

*Proposed Reduced Monitoring –
Site-Wide Groundwater
Compliance Monitoring Plan,
Technical Revision Request, and
Ecology Approval Letter*

June 21, 2007

Mr. Roger Nye
Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue N.E.
Bellevue, Washington 98008-5452

Sent via FedEx Saver

SUBJ: Site-Wide Groundwater Compliance Monitoring Plan – Proposed
Reduced Monitoring
Kinder Morgan Harbor Island Terminal
Seattle, Washington
Delta Project No. STKM-001-M.0005

Dear Mr. Nye:

This plan has been prepared on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) by Delta Environmental Consultants (Delta) and presents a proposed revision to the site-wide groundwater compliance monitoring program for the KMLT Harbor Island Terminal located at 2720 13th Avenue Southwest in Seattle, Washington (“the site”). The revisions included in this document supersede those revisions previously proposed in an August 2, 2006 letter to you, and in a second draft dated March 22, 2007. These plan revisions are proposed in accordance with Section 2.3.4 of the Compliance Monitoring Plan (Plan) developed for the site. Further modifications to the Draft Plan were discussed with you by telephone on June 13, 2007, and this Final Proposed Reduced Monitoring Plan incorporates those modifications.

PROPOSED SITE-WIDE COMPLIANCE MONITORING PLAN

The Plan was developed to describe the protocol and procedures used to confirm that cleanup requirements are achieved at the site. This monitoring plan was prepared to satisfy the requirements of the Model Toxics Control Act (MTCA) regulations WAC 173-340-410, -720, and -820 and in accordance with requirements from Exhibit F of the Consent Decree.

The achievement of cleanup levels in groundwater is measured at points of performance and compliance located within the hydrocarbon plume area and at the downgradient edge of the site. The wells at the downgradient edge of the site are considered conditional points of compliance wells. These points of compliance and performance consist of a network of monitoring wells located in the hydrocarbon plume area and on the downgradient property boundary. Sentry wells are also used to document plume migration, performance standards, and to warn of any unanticipated change in off-site groundwater conditions.



a member of:



The Compliance Monitoring Plan incorporated in the Consent Decree includes quarterly monitoring for free product, dissolved TPH constituents, total and dissolved lead, and natural attenuation parameters. In accordance with *Section 2.3.4 Monitoring Schedule* of the Plan, the sampling frequency and number of parameters may be reduced if monitoring data indicates that trends are declining. Following are the proposed revisions for each of these compliance monitoring criteria, and the rationale for each revision.

Free Product

As established in the Plan, KMLT currently performs quarterly gauging of 71 wells for monitoring of free product. KMLT proposes to continue monitoring of wells in which free product has been observed during the past 8 quarters, and the 29 wells which were identified as Compliance Monitoring Wells in Table 1 of the Plan. Accordingly, KMLT proposes to continue quarterly gauging of the following 43 wells: A-4, A-5, A-6, A-8, A-10, A-11, A-12, A-14R, A-16, A-18, A-19, A-20, A-21, A-22R, A-23R, A-25, A-26R, A-27, A-28R, 12, MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-12R, MW-13R, MW-14, MW-16, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, SH-02R, SH-05R, and MW-07R.

Dissolved TPH Constituents

The current compliance monitoring program for dissolved TPH constituents includes quarterly sampling of 32 monitoring wells (29 Compliance Monitoring Wells and 3 additional wells which were installed in September 2003 as part of a supplemental study to further characterize free product in the A Yard). A summary of monitoring wells and annual analyses included in the current dissolved TPH constituents compliance monitoring program is presented on Table 1. A site map showing locations of groundwater monitoring wells is included as Figure 2.

An evaluation of groundwater analytical data collected since the execution of the Consent Decree indicates that data collected from numerous monitoring wells have demonstrated that cleanup criteria have either been met from the outset of the program or have demonstrated at least 4 consecutive quarters meeting cleanup criteria. A summary of groundwater analytical results for 2000 through December 2006 are presented in Table 2.

An evaluation of historical groundwater analytical results with respect to established cleanup criteria is summarized in Table 3. Where applicable, wells and corresponding analytes which demonstrate a consistent trend of meeting cleanup criteria are noted. Wells and corresponding analytes are highlighted where historic monitoring indicates a reduction in monitoring frequency or analytes is warranted.

KMLT proposes a revision from quarterly monitoring for TPH parameters as follows. For wells which have demonstrated that cleanup criteria for TPH-G, BTEX, TPH-D, and TPH-O have been met from the outset of the program, KMLT proposes to reduce the frequency of quarterly monitoring to annual monitoring. For wells which have not met the criteria for TPH-G and BTEX, but have met the criteria for TPH-D and TPH-O, KMLT proposes to continue quarterly monitoring for TPH-G and BTEX and discontinue monitoring for TPH-D and TPH-O. Proposed compliance monitoring plan revisions are summarized in Table 4.

After the revised program is initiated, if results demonstrate that any TPH cleanup criteria has been exceeded in a well, KMLT will revert to quarterly monitoring for respective analytes that were exceeded for the well, and will resume quarterly monitoring for natural attenuation parameters.

Total and Dissolved Lead

As established in the Plan, KMLT currently monitors for total lead on a quarterly basis in 20 wells. The purpose of this monitoring is to demonstrate performance and confirmation monitoring of the surface cleanup action for the site. The surface cleanup action, which included removal of surface soils containing concentrations of total lead exceeding the hot-spot cleanup criteria, was executed and completed in April and May 2002. In accordance with *Section 2.2* of the Plan, performance monitoring for total lead has been performed on a quarterly basis since the completion of the surface cleanup action. Following the performance of the surface cleanup action, total lead has infrequently exceeded the cleanup criterion. KMLT proposes to continue monitoring for this parameter on an annual basis.

As required in the Plan, KMLT also currently monitors for dissolved lead on a quarterly basis in the same 20 wells which are monitored for total lead. Cleanup criteria for this parameter was not established in the Cleanup Action Plan. Dissolved lead has been detected in 4 of the 20 wells. Dissolved lead was detected in one or two instances in two wells, and was detected in two wells on a more frequent basis in two wells. Delta proposes to monitor for

dissolved lead in two wells (A-23R and MW-7) which have contained measurable concentrations on a periodic basis in the past.

A summary of monitoring wells and annual analyses included in the current total and dissolved lead compliance monitoring program is presented on Table 1. A summary of groundwater analytical results for 2000 through December 2006 are presented in Table 2. An evaluation of historical groundwater analytical results with respect to established cleanup criteria is summarized in Table 3. Proposed compliance monitoring plan revisions are summarized in Table 4.

Natural Attenuation Parameters


The current compliance monitoring program for natural attenuation parameters includes quarterly sampling of 26 monitoring wells (23 Compliance Monitoring Wells and 3 additional wells which were installed in September 2003 as part of a supplemental study to further characterize free product in the A Yard). In accordance with *Section 2.2.3 Monitoring Schedule* of the Plan which states that natural attenuation monitoring will be conducted quarterly for the first year and annually thereafter, KMLT proposes to discontinue monitoring of wells which have met the criteria for TPH-G, BTEX, TPH-D and TPH-O constituents, and continue monitoring on an annual basis those wells which have not met the criteria. Proposed compliance monitoring plan revisions are summarized in Table 4.

A summary of proposed compliance monitoring plan revisions are presented in Table 4. Wells which are designated for annual monitoring will be monitored during the second quarter event. A summary of monitoring wells and a tally of annual analyses for all parameters proposed in this compliance monitoring program revision is presented on Table 5.

KMLT proposes to incorporate the compliance monitoring plan revisions included herein during the third quarter 2007 monitoring event. Please call if you have any questions regarding the contents of this letter, or if you would like to discuss any aspect of the proposed compliance monitoring plan. Delta looks forward to your approval of this program.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.


for Ward Crell
Principal Geologist

Enc: Table 1 – Summary of Current Annual Analyses, Groundwater Compliance Program
Table 2 – Groundwater Analytical Results
Table 3 – Analytical Summary 2000 – December 2006, Current Groundwater Compliance Program
Table 4 – Proposed Groundwater Compliance Program, Recommended Monitoring Frequency
Table 5 – Summary of Proposed Annual Analyses, Groundwater Compliance Program
Figure 1 – Site Plan – Groundwater Monitoring Well Locations

cc: Mr. Robert Truedinger, Kinder Morgan Energy Partners, L.P., Richmond, California
Ms. Kelsy Hardy, Kinder Morgan Energy Partners, L.P., Orange, California (File Copy - CD Only)

TABLE 1
CURRENT ANNUAL ANALYSES
GROUNDWATER COMPLIANCE PROGRAM
 Kinder Morgan Harbor Island Terminal

Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D+ extended	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	4	4							
A-8	4	4							
A-10	4	4			4	4	4	4	4
A-14R	4	4	4	4	4	4	4	4	4
A-21	4	4	4	4	4	4	4	4	4
A-23R	4	4	4	4	4	4	4	4	4
A-27	4	4			4	4	4	4	4
A-28R	4	4	4	4	4	4	4	4	4
MW-1	4	4	4	4	4	4	4	4	4
MW-2	4	4	4	4	4	4	4	4	4
MW-3	4	4	4	4	4	4	4	4	4
MW-4	4	4			4	4	4	4	4
MW-5	4	4	4	4	4	4	4	4	4
MW-6	4	4	4	4	4	4	4	4	4
MW-7	4	4	4	4	4	4	4	4	4
MW-8	4	4	4	4	4	4	4	4	4
MW-9	4	4	4	4	4	4	4	4	4
MW-12R	4	4	4	4					
MW-13R	4	4	4	4					
MW-14	4	4			4	4	4	4	4
MW-16	4	4							
MW-18	4	4							
MW-19	4	4			4	4	4	4	4
MW-20	4	4			4	4	4	4	4
MW-21	4	4			4	4	4	4	4
MW-22	4	4			4	4	4	4	4
SH-02R	4	4	4	4	4	4	4	4	4
SH-05R	4	4	4	4	4	4	4	4	4
MW-07R	4	4	4	4	4	4	4	4	4
MW-23	4	4	4	4	4	4	4	4	4
MW-24	4	4	4	4	4	4	4	4	4
MW-25	4	4	4	4	4	4	4	4	4
ANNUAL TOTAL:	128	128	80	80	104	104	104	104	104

Notes: Number denotes number of quarters sampled annually

 Parameter not analyzed

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-1	02/13/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	1.9	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	08/28/02	<0.25	1.0	<0.5	0.0013	0.0067	0.00052	0.0016	<0.005*
	11/05/02	<0.25	0.87	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.021*
	02/19/03	<0.25	1.9	<0.5	<0.0005	0.00058	<0.0005	<0.0005	<0.005*
	06/10/03	<0.25	1.1	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	02/25/04	<0.25	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/11/04	<0.25	0.87	<0.50	<0.0005	0.00068	<0.0005	<0.0005	<0.0050*
	08/25/04	0.83	0.40	<0.50	<0.0005	<0.0005	0.00065	<0.0005	<0.0050*
	12/15/04	<0.25	0.38	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	0.63	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.80	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.40	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
06/07/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0052*	
12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	02/13/02	<0.25	0.71	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	0.66	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	08/29/02	<0.25	0.91	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	11/05/02	<0.25	0.73	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	<0.25	0.74	<0.5	<0.0005	0.00062	<0.0005	<0.0005	0.028*
	06/10/03	<0.25	0.61	<0.25	<0.0005	0.00071	<0.0005	<0.0005	0.026 ^{sa}
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.062*
	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.021*
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.030*
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/10/05	<0.25	0.29	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/05	<0.25	0.91	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.036*
	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.024*
	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0063*	
09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	02/13/02	<0.25	1.8	<0.5	0.011	0.0015	0.0045	0.011	<0.005*
	05/20/02	0.38	1.9	<0.5	0.052	0.0028	0.025	0.02	0.01*
	08/28/02	0.62	2.5	<0.5	0.11	0.0071	0.021	0.030	<0.005*
	11/06/02	0.63	1.1	<0.5	0.14	0.0053	0.021	0.015	0.006*
	02/19/03	<0.25	1.8	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.014*
	06/11/03	<0.25	1.3	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.019*
	09/17/03	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.042*
	11/20/03	<0.25	2.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0063*
	02/25/04	<0.25	1.2	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.025*
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0051*
	12/15/04	<0.25	0.33	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.018*
	03/09/05	<0.25	<0.25	<0.50	0.001	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	<0.25	<0.50	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	<0.25	<0.50	0.00094	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
Dup-2^a	06/08/05	<0.25	<0.25	<0.50	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.27	<0.50	0.00098	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.010*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**
Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-4	02/14/02	0.78	280	<50	0.3	0.0072	0.0023	0.0082	NA
	05/21/02	1.5	8.6	<0.5	0.43	0.023	0.034	0.13	NA
	08/28/02	3.3	30	2.6	1.1	0.016	0.016	0.024	NA
	11/04/02	NS	NS	NS	NS	NS	NS	NS	NA
	02/19/03	3.1	31	<0.5	0.056	0.0017	0.014	0.02	NA
	06/10/03	0.39	12	<0.25	0.031	0.0012	0.0091	0.0096	NA
	09/16/03	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/03	0.25	19	<0.50	0.033	<0.001	0.0042	0.0069	NA
	02/25/04	0.36	15	<0.50	0.035	0.0014	0.0056	0.0094	NA
	05/12/04	0.33	7.4	<0.50	0.012	<0.001	0.0048	0.0058	NA
	08/26/04	<0.50	5.1	<0.50	0.014	<0.0025	0.0039	0.0069	NA
	12/15/04	NS	NS	NS	NS	NS	NS	NS	NA
	03/09/05	<2.0	11	<0.50	<0.01	<0.01	<0.01	0.013	NA
	06/08/05	<1.0	16	1.1	<0.005	<0.005	<0.005	<0.005	<0.0050
	09/21/05	<2.0	19	2.1	<0.010	<0.010	<0.010	<0.010	NA
	12/14/05	<0.50	6.2	0.81	0.012	<0.0025	0.0032	0.0084	NA
	03/14/06	<0.40	3.9	0.69	0.0063	<0.0020	0.0020	0.0062	NA
	06/07/06	<0.50	4.5	<0.50	0.0037	<0.0025	<0.0025	<0.0025	NA
	09/13/06	<0.50	2.7	<0.50	0.0034	<0.0025	<0.0025	0.0029	NA
	12/13/06	<0.25	3.7	0.62	0.0012	<0.0005	<0.0005	0.0023	NA
MW-5	02/13/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.01*
	08/29/02	<0.25	1.2	<0.5	<0.0005	0.0018	<0.0005	0.00063	<0.005*
	11/05/02	<0.25	1.6	<0.5	0.0055	0.0016	<0.0005	0.00056	<0.005*
	02/20/03	<0.25	<0.25	<0.5	<0.0005	0.00066	<0.0005	<0.0005	<0.005*
	06/11/03	<0.25	0.36	<0.25	<0.0005	0.00079	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*
	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0086*
	02/24/04	<0.25	<0.50	<0.50	<0.0005	0.0014	<0.0005	<0.0005	<0.0050*
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.11*
	06/08/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0099*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.013*
	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0088*
MW-6	02/13/02	0.97	1.1	<0.5	0.014	0.0007	<0.0005	0.00065	<0.005*
	05/22/02	1.1	2.5	<0.5	0.035	0.0012	0.0024	0.00072	<0.005*
	08/29/02	0.58	6.4	<0.5	0.0014	<0.001	<0.001	<0.001	<0.005*
	11/05/02	0.59	7.3	<0.5	0.064	<0.001	<0.001	0.0016	0.02*
	02/19/03	0.54	1.7	<0.5	0.0062	<0.0005	<0.0005	<0.0005	<0.005*
	06/10/03	0.70	1.9	<0.25	0.025	0.0011	0.00052	0.00051	<0.005*
	09/16/03	0.68	<0.50	<0.50	<0.0005	<0.0005	0.00053	<0.0005	0.019*
	11/19/03	0.44	1.6	<0.50	0.0095	0.00067	<0.0005	0.00051	<0.0050*
	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/11/04	1.0	0.67	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/04	0.82	0.81	<0.50	0.008	<0.0005	<0.0005	<0.0005	0.011*
	03/10/05	1.0	0.42	<0.50	0.0011	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/05	0.9	<0.25	<0.50	0.0014	<0.0005	<0.0005	<0.0005	<0.0050*
	09/20/05	0.9	<0.25	<0.50	<0.0005	<0.0005	0.00062	<0.0005	<0.0050*
	12/13/05	1.2	0.38	<0.50	0.0032	<0.0005	0.0005	<0.0005	<0.0050*
	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/12/06	0.71	<0.25	<0.50	<0.0005	0.00055	<0.0005	<0.0005	<0.0050*
	12/12/06	<0.25	<0.25	<0.50	<0.0005	0.00055	<0.0005	<0.0005	<0.0050*

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-7	02/14/02	13	7.5	<0.5	0.20	0.24	0.57	1.8	0.035*
	05/21/02	6.6	11	<0.5	0.16	0.089	0.43	0.66	0.04*
	08/29/02	2.9	5.7	<0.5	0.12	0.042	0.24	0.11	0.047*
	11/05/02	0.9	5.9	<0.5	0.021	0.0022	0.004	0.0066	0.041*
	02/20/03	9.7	11	<0.5	0.12	0.13	0.33	1.4	0.11 ^{sa}
	06/11/03	5.7	8.7	<0.25	0.13	0.092	0.26	0.52	0.081 ^{sa}
	09/17/03	1.4	12	<0.50	0.078	0.031	0.15	0.089	0.11 ^{sa}
	11/20/03	0.26	0.8	<0.50	<0.0005	<0.0005	<0.0005	0.035	0.019 ^{sa}
	02/26/04	15	21	<0.50	0.11	0.34	0.63	3.8	0.034 ^{sa}
	05/11/04	6.3	11	<0.50	0.059	0.15	0.31	1.3	0.0083 ^{sa}
	08/26/04	7.1	20	<0.50	0.054	0.22	0.34	1.7	0.067 ^{sa}
	12/15/04	18	4.4	<0.50	0.14	0.37	0.53	3	0.19 ^{sa}
	03/09/05	3.5	2.1	<0.50	0.045	0.034	0.09	0.27	0.079 ^{sa}
	06/08/05	2.9	2.3	<0.50	0.054	0.05	0.11	0.44	0.069 ^{sa}
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/05	8.8	0.59	<0.50	0.16	0.19	0.31	1.5	0.042 ^{sa}
03/14/06	15	0.50	<0.50	0.12	0.26	0.50	3.6	0.026*	
06/07/06	17	0.85	<0.50	0.12	0.35	0.69	4.5	0.023*	
09/13/06	2.4	0.32	<0.50	0.05	0.06	0.19	0.39	0.021 ^a	
12/13/06	NS	NS	NS	NS	NS	NS	NS	NS	
MW-8	02/14/02	<0.25	8.1	<5.0	<0.0005	0.00086	<0.0005	<0.0005	0.03*
	08/29/02	<0.25	7.5	<0.5	<0.0005	0.00082	<0.0005	<0.0005	0.017*
	11/05/02	<0.25	1.7	1.2	<0.0005	<0.0005	<0.0005	<0.0005	0.012*
	02/20/03	<0.25	6.6	<0.5	<0.0005	0.00055	<0.0005	0.0024	0.029*
	06/11/03	<0.25	3.8	<0.25	0.0013	<0.001	<0.001	<0.001	0.012*
	09/17/03	<0.25	3.3	0.77	<0.0005	<0.0005	<0.0005	<0.0005	0.030*
	11/20/03	<0.25	2.5	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	02/26/04	<0.25	2.7	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.016*
	05/11/04	<0.25	1.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	1.5	<0.50	<0.001	<0.001	<0.001	<0.001	0.0071*
	03/09/05	<0.25	1.6	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0094*
	06/08/05	<0.25	1.8	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.014*
	09/21/05	<0.25	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*
	12/14/05	<0.25	1.1	0.58	<0.001	<0.001	<0.001	0.0013	0.0060*
	03/14/06	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*
06/07/06	<0.25	0.88	0.61	<0.0005	<0.0005	<0.0005	<0.0005	0.0093*	
09/13/06	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	
12/13/06	<0.25	0.82	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0060*	
MW-9	06/11/03	6.0	13	<0.50	0.0031	0.036	0.076	0.6	0.022*
	09/17/03	5.3	39	0.72	0.026	0.027	0.09	0.45	0.0095*
	11/20/03	8.5	19	<0.50	<0.005	0.018	0.14	1.1	0.0096*
	02/26/04	4.1	28	<0.50	0.022	0.0072	0.025	0.47	0.0083*
	05/11/04	4.1	5.8	<0.50	0.0023	0.0093	0.081	0.44	<0.0050*
	08/26/04	4.2	6.2	<0.50	0.0066	0.025	0.13	0.43	0.0099*
	12/15/04	5.4	7.6	<0.50	<0.0025	0.011	0.12	0.39	0.0094*
	03/09/05	4.5	3.5	<0.50	0.0037	0.0047	0.042	0.18	0.021*
	06/08/05	3.2	3.9	<0.50	0.0035	0.0087	0.069	0.17	0.0076*
	09/21/05	2.3	2.6	<0.50	0.007	0.0077	0.033	0.12	0.0076*
	12/14/05	4.7	1.2	<0.50	0.0078	0.010	0.12	0.38	0.0095*
	03/14/06	2.4	1.4	<0.50	0.0024	0.003	0.018	0.12	0.013*
	06/07/06	<0.25	1.0	<0.50	0.0011	0.023	0.049	0.21	0.021*
09/13/06	1.8	0.46	<0.50	0.0044	0.016	0.063	0.06	0.010*	
12/13/06	2.6	3.8	<0.50	<0.0025	<0.0025	0.024	0.190	0.025*	

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-12	06/20/01	<0.06	1.7	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
MW-12R	02/14/02	<0.25	1.4	<0.5	0.014	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	2.5	<0.5	0.08	0.0013	<0.0005	0.00066	<0.005*
	08/28/02	<0.25	2.1	<0.5	0.028	0.0059	<0.0005	0.0015	<0.005*
	11/05/02	<0.25	1.3	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	0.26	2.5	<0.5	0.19	0.0012	<0.001	<0.001	<0.005*
	06/10/03	0.41	1.3	<0.25	0.11	0.00055	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	0.67	<0.50	0.0021	<0.0005	<0.0005	<0.0005	<0.013*
	11/19/03	0.42	<0.25	<0.50	0.26	<0.001	<0.001	<0.001	0.0078
	02/25/04	0.26	1.8	<0.50	0.099	0.0005	<0.0005	0.00076	0.010*
	05/12/04	0.56	0.74	<0.50	0.20	<0.001	<0.001	<0.001	<0.0050*
	08/26/04	0.35	0.50	<0.50	0.089	<0.001	<0.001	<0.001	<0.0050*
	12/15/04	<0.25	0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	09/21/05	0.26	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/13/06	<0.25	0.27	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
MW-13	06/19/01	<0.05	1.3	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
MW-13R	02/14/02	<0.25	3.2	<0.5	0.056	<0.0005	<0.0005	0.00075	<0.005*
	05/21/02	<0.25	3.5	<0.5	0.0025	<0.0005	<0.0005	<0.0005	<0.005*
	08/28/02	<0.25	2.4	<0.5	<0.0005	0.0019	<0.0005	0.0007	<0.005*
	11/05/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	<0.25	1.7	<0.5	0.00078	0.0032	<0.0005	0.00083	<0.005*
	06/10/03	<0.25	0.76	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	09/16/03	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0078*
	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0066
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012*
	05/12/04	<0.25	0.61	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	0.91	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	09/21/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.005	<0.005	<0.005	<0.005	<0.0050*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/13/06	<0.25	0.33	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0077*

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-14	02/13/02	2.5	37	<5.0	0.01	0.0085	0.18	0.22	NA
	05/21/02	2.9	23	1.0	0.0093	0.0057	0.18	0.15	NA
	08/29/02	2.9	28	<0.5	0.017	0.0073	0.21	0.14	NA
	11/05/02	2.0	28	0.91	0.06	0.0059	0.12	0.076	NA
	02/20/03	3.4	18	<0.5	0.056	0.0062	0.14	0.11	NA
	06/11/03	3.1	28	<0.5	0.059	0.0098	0.23	0.13	NA
	09/16/03	<1.0	15	<0.50	0.13	<0.005	0.019	0.022	NA
	11/20/03	<2.0	29	0.70	0.12	<0.01	0.02	0.031	NA
	02/24/04	2.4	21	<0.50	0.061	0.014	0.25	0.2	NA
	05/11/04	2.7	27	<0.50	0.053	0.0092	0.21	0.16	NA
	08/26/04	2.3	11	0.53	0.024	<0.0025	0.16	0.19	NA
	12/15/04	1.2	9.6	<0.50	0.0084	<0.005	0.01	0.0055	NA
	03/09/05	4.2	7.7	<0.50	0.0053	0.0094	0.18	0.099	NA
	06/08/05	3.1	8.8	<0.50	0.0043	0.0069	0.17	0.11	NA
	09/21/05	1.6	10.0	1.1	0.012	0.0048	0.077	0.068	NA
	12/14/05	3.1	2.0	<0.50	0.0059	0.0075	0.120	0.068	NA
03/14/06	0.79	2.1	<0.50	<0.0025	<0.0025	0.023	0.03	NA	
06/07/06	0.84	3.0	<0.50	<0.0025	<0.0025	0.061	0.033	NA	
09/13/06	2.4	1.8	<0.50	<0.0025	0.0060	0.100	0.056	NA	
	12/13/06	1.1	1.4	<0.50	<0.0025	<0.0025	0.044	0.029	NA
MW-16	02/13/02	<0.25	<0.25	<0.5	0.0013	0.0037	<0.0005	0.0011	NA
	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/29/02	<0.25	<0.5	<0.5	<0.0005	0.0022	<0.0005	0.00069	NA
	11/05/02	<0.25	0.29	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/19/03	<0.25	<0.25	<0.5	<0.0005	0.0018	<0.0005	<0.0005	NA
	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/19/03	<0.25	<0.25	<0.50	<0.0005	0.0013	<0.0005	0.00062	NA
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/15/04	<0.25	<0.25	<0.50	0.029	<0.0005	<0.0005	<0.0005	NA
	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA	
06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA	
09/12/06	<0.25	<0.25	<0.50	<0.0005	0.00062	0.0012	<0.0005	NA	
	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
MW-18	02/13/02	7.6	0.77	<0.5	1.8	0.067	0.29	0.34	NA
	05/21/02	1.2	0.30	<0.5	0.25	0.016	0.068	0.068	NA
	08/29/02	1.6	<0.5	<0.5	0.45	0.014	0.032	0.044	NA
	11/05/02	1.1	<0.25	<0.5	<0.3	0.010	0.011	0.031	NA
	02/19/03	<0.25	<0.25	<0.5	0.0035	0.0047	<0.0005	0.0016	NA
	06/10/03	<0.25	<0.25	<0.25	0.022	0.0016	<0.0005	0.004	NA
	09/16/03	<0.25	<0.50	<0.50	0.036	0.0019	<0.0005	0.0075	NA
	11/19/03	<0.25	<0.25	<0.50	0.0042	<0.0005	<0.0005	0.0015	NA
	02/25/04	0.58	<0.25	<0.50	0.11	0.0048	0.00087	0.026	NA
	05/11/04	1.1	<0.25	<0.50	0.25	0.0073	0.0016	0.037	NA
	08/26/04	<0.25	<0.25	<0.50	0.003	<0.0005	<0.0005	<0.0005	NA
	12/15/04	0.84	<0.25	<0.50	0.14	0.006	0.0019	0.029	NA
	03/10/05	0.84	<0.25	<0.50	0.25	0.0049	0.002	0.021	NA
	06/07/05	0.68	<0.25	<0.50	0.17	0.0039	0.0019	0.0098	NA
	09/20/05	4.0	<0.25	<0.50	0.74	0.021	0.0091	0.09	NA
	12/13/05	2.3	<0.25	<0.50	0.45	0.015	0.0067	0.033	NA
03/15/06	4.9	<0.25	<0.50	1.2	0.035	0.025	0.12	NA	
06/08/06	1.2	<0.25	<0.50	0.15	0.011	0.011	0.034	NA	
09/12/06	0.35	<0.25	<0.50	0.023	0.0021	0.0022	0.0047	NA	
	12/12/06	0.28	<0.25	<0.50	0.023	0.0018	0.0019	0.0060	NA

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-19	02/13/02	29	6.8	<2.5	0.057	0.73	0.58	6.5	NA
	05/21/02	30	7.7	<0.5	0.049	0.65	0.53	6.5	NA
	08/29/02	13	11	<0.5	0.14	0.29	0.20	2.1	NA
	11/05/02	8.2	3.0	<0.5	0.21	0.37	0.16	1.7	NA
	02/20/03	38	19	<0.5	0.091	1.2	0.80	8.0	NA
	06/11/03	32	15	<1.0	0.042	0.38	0.80	6.7	NA
	09/16/03	4.2	12	<0.50	0.19	0.043	0.19	1.1	NA
	11/20/03	22	10	<0.50	0.11	0.67	0.75	6.1	NA
	02/24/04	19	14	<0.50	<0.015	0.49	0.63	4.7	NA
	05/11/04	27	13	<0.50	<0.025	0.22	0.87	7.2	NA
	08/26/04	22	0.72	<0.50	0.042	0.26	0.64	4.6	NA
	12/15/04	15	7.6	<0.50	0.039	0.12	0.37	2.7	NA
	03/09/05	27	9.1	<0.50	0.073	0.18	0.56	3.4	NA
	06/08/05	17	6.3	<0.50	0.071	0.17	0.61	2.8	NA
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/05	NS	NS	NS	NS	NS	NS	NS	NS
	03/14/06	NS	NS	NS	NS	NS	NS	NS	NS
	06/07/06	14	1.4	<0.50	<0.010	0.043	0.29	1.4	NA
	09/13/06	11	0.5	<0.50	0.032	0.047	0.41	1.1	NA
		12/13/06	8.0	1.4	<0.50	0.016	0.052	0.30	1.4
MW-20	02/13/02	<0.25	0.64	<0.5	<0.001	<0.001	<0.001	<0.001	NA
	05/20/02	<0.25	1.3	<0.5	0.018	0.0012	0.0048	0.014	NA
	08/29/02	0.6	1.1	<0.5	0.057	0.0065	0.021	0.084	NA
	11/06/02	<0.25	0.81	<0.5	0.0023	0.00053	<0.0005	<0.0005	NA
	02/19/03	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/11/03	<0.25	0.68	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/17/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	0.00072	NA
	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/15/04	<0.25	0.30	<0.50	0.0013	<0.0005	<0.0005	<0.0005	NA
	03/09/05	<0.25	<0.25	<0.50	0.00074	<0.0005	<0.0005	<0.0005	NA
	06/08/05	<0.25	0.55	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
		12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005
MW-21	06/11/03	NS	NS	NS	NS	NS	NS	NS	NS
	09/17/03	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/03	0.97	19	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	02/26/04	2.3	35	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	05/11/04	1.2	29	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	08/26/04	4.3	33	<0.50	<0.001	<0.001	0.0013	0.0014	NA
	12/15/04	NS	NS	NS	NS	NS	NS	NS	NA
	03/09/05	2.4	140	<5.0	<0.0015	<0.0015	0.0016	<0.0015	NA
	06/08/05	1.8	31	0.5	<0.002	<0.002	0.0026	<0.002	NA
	09/21/05	1.7	46	3.3	<0.0010	<0.0010	0.0013	<0.0010	NA
	12/14/05	1.0	6.1	0.54	<0.002	<0.002	0.0027	<0.002	NA
	03/14/06	<0.25	33	3.1	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/06	0.8	18	1.2	<0.0025	<0.0025	<0.0025	<0.0025	NA
09/13/06	NS	NS	NS	NS	NS	NS	NS	NS	
	12/13/06	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
MW-22	02/13/02	0.96	9.2	<0.5	0.012	0.0053	0.017	0.0097	NA
	05/21/02	1.1	7.7	<0.5	0.16	0.049	0.023	0.03	NA
	08/29/02	1.4	2.4	<0.5	0.5	0.0093	0.044	0.0066	NA
	11/05/02	0.49	1.7	<0.5	0.14	0.0031	0.025	<0.001	NA
	02/19/03	<0.25	9.1	<0.5	<0.001	<0.001	<0.001	<0.001	NA
	06/10/03	<0.25	7.4	0.87 ^a	<0.001	<0.001	<0.001	<0.001	NA
	09/16/03	<0.25	2.7	<0.50	0.0018	<0.0005	<0.0005	<0.0005	NA
	11/19/03	<0.50	8.4	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	NA
	02/25/04	<0.25	6.4	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	05/11/04	<0.25	2.0	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	08/25/04	<0.25	0.61	<0.50	<0.001	<0.001	<0.001	<0.001	NA*
	12/14/04	<0.25	1.1	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	03/10/05	<0.25	2.2	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/05	<0.25	3.0	<0.50	0.0049	<0.001	<0.001	<0.001	NA
	09/20/05	0.40	2.9	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	12/13/05	<0.25	0.71	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	03/15/06	<0.25	2.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/08/06	<0.25	0.89	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/12/06	<0.25	0.45	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/12/06	<0.25	1.4	<0.50	<0.001	<0.001	<0.001	<0.001	NA
MW-23	11/19/03	5.3	1.4	<0.50	0.87	0.016	0.098	0.23	NA
	02/25/04	3.3	0.85	<0.50	0.91	0.011	0.046	0.03	0.0052*
	05/12/04	4.2	1.3	<0.50	1.1	0.013	0.046	0.048	<0.0050*
	08/26/04	5.3	0.72	<0.50	1.1	0.023	0.2	0.17	0.014*
	12/14/04	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/05	NS	NS	NS	NS	NS	NS	NS	NS
	06/07/05	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/05	6.3	<0.25	<0.50	1.3	0.014	0.048	0.044	<0.0050*
	03/15/06	7.0	0.28	<0.50	1.4	0.015	0.19	0.21	<0.0050*
	06/08/06	5.2	1.30	<0.50	1.4	0.014	0.11	0.11	<0.0050*
	09/12/06	NS	NS	NS	NS	NS	NS	NS	NS
	12/12/06	8.1	<0.25	<0.50	1.8	0.020	0.11	0.16	<0.0050*
MW-24	11/19/03	34	6.4	0.54	2.8	0.54	1.4	6	NA
	02/25/04	26	3.0	<0.50	4.3	0.085	1.0	3.3	<0.0050*
	05/12/04	NS	NS	NS	NS	NS	NS	NS	NS
	08/26/04	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/04	NS	NS	NS	NS	NS	NS	NS	NS
	03/08/05	NS	NS	NS	NS	NS	NS	NS	NS
	06/07/05	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/14/05	NS	NS	NS	NS	NS	NS	NS	NS
	03/15/06	26	0.34	<0.50	4.4	0.064	0.88	4.2	0.0069
	06/08/06	21	<0.25	<0.50	1.5	0.039	0.86	4.9	0.0068
	09/12/06	NS	NS	NS	NS	NS	NS	NS	NS
	12/12/06	20	1.1	<0.50	1.5	0.037	0.69	3.2	0.0078*
MW-25	11/20/03	<0.25	1.3	<0.50	0.0061	<0.0005	<0.0005	<0.0005	NA
	02/26/04	0.38	8.9	<0.50	0.0011	<0.0005	0.0027	<0.0005	0.012*
	5/12/04	<0.25	1.6	<0.50	<0.0005	<0.0005	0.0034	<0.0005	<0.0050*
	08/26/04	<0.25	0.27	<0.50	0.013	<0.0005	<0.0005	<0.0005	0.034* ^a
	12/14/04	<0.25	1.4	<0.50	0.0035	<0.001	<0.001	<0.001	<0.0050*
	03/10/05	0.31	3.7	<0.50	0.0014	<0.0005	0.00064	<0.0005	<0.0050*
	06/07/05	0.40	3.2	<0.50	<0.001	<0.001	0.0014	<0.001	<0.0050*
	09/20/05	0.30	1.4	<0.50	0.0016	<0.0005	<0.0005	<0.0005	0.059* ^a
	12/13/05	<0.25	1.2	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	03/15/06	<0.25	1.0	<0.50	0.0019	<0.001	<0.001	<0.001	<0.0050*
	06/08/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/12/06	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/12/06	<0.25	0.86	<0.50	0.0052	<0.0005	<0.0005	<0.0005	<0.0050*

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
A-5	02/14/02	<0.25	2.3	<0.5	0.00055	0.0017	<0.0005	<0.0005	NA
	05/22/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/29/02	<0.25	1.2	<0.5	0.0017	0.00062	<0.0005	0.00099	NA
	11/06/02	<0.25	1.2	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/20/03	<0.25	<0.25	<0.5	0.00086	0.0019	<0.0005	0.001	NA
	06/10/03	0.26	0.4	<0.25	<0.0005	0.00067	<0.0005	0.0007	NA
	09/17/03	<0.25	0.60	<0.50	0.0042	<0.0005	<0.0005	<0.0005	NA
	11/20/03	<0.25	0.53	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/26/04	<0.25	3.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/12/04	0.27	0.43	<0.50	<0.0005	<0.0005	<0.0005	0.00057	NA
	08/25/04	<0.25	1.1	<0.50	0.0029	<0.0005	<0.0005	<0.0005	NA
	12/14/04	<0.25	0.43	<0.50	0.021	<0.001	<0.001	<0.001	NA
	03/10/05	0.43	5.2	<0.50	0.12	0.0025	<0.001	0.0012	NA
	06/07/05	0.54	2.4	1.70	0.12	0.0028	<0.001	0.0013	NA
	09/20/05	0.37	1.2	<0.50	0.037	0.0017	<0.001	0.0011	NA
	12/13/05	0.44	0.31	<0.50	0.049	0.0021	<0.0005	0.0013	NA
03/15/06	0.36	0.45	<0.50	0.052	0.0017	<0.001	0.0017	NA	
06/08/06	0.91	0.55	<0.50	0.099	0.0036	0.00076	0.0034	NA	
09/12/06	0.46	0.43	<0.50	0.031	0.0016	<0.001	0.0014	NA	
	12/12/06	0.70	0.53	<0.50	0.079	0.0028	<0.001	0.0025	NA
A-8	02/14/02	<0.25	1.6	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/22/02	<0.25	0.51	<0.5	<0.0005	0.00058	<0.0005	<0.0005	NA
	08/28/02	<0.25	<0.5	<0.5	<0.0005	0.0014	<0.0005	0.00066	NA
	11/06/02	<0.25	0.43	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/20/03	<0.25	<0.25	<0.5	<0.0005	0.00083	<0.0005	<0.0005	NA
	06/10/03	<0.25	<0.25	<0.25	<0.0005	0.00056	<0.0005	<0.0005	NA
	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/20/03	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/26/04	0.35	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/25/04	<0.25	4.9	<0.50	<0.001	<0.001	<0.001	<0.001	NA
	12/14/04	<0.25	1.7	<0.50	0.00056	0.00052	<0.0005	0.00094	NA
	03/10/05	<0.25	2.1	<0.50	<0.0005	<0.0005	<0.0005	0.00055	NA
	06/07/05	<0.25	1.2	1.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
	09/20/05	<0.25	3.5	0.8	0.0012	<0.001	<0.001	0.0012	NA
	12/13/05	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	0.0011	NA
03/15/06	<0.25	0.55	<0.50	<0.001	<0.001	<0.001	<0.001	NA	
06/08/06	<0.25	0.47	<0.50	<0.001	<0.001	<0.001	<0.001	NA	
09/12/06	<0.25	0.76	<0.50	<0.001	<0.001	<0.001	0.0011	NA	
	12/12/06	0.27	0.87	<0.50	<0.001	0.0011	<0.001	0.0015	NA
A-10	02/14/02	<0.25	9.2	<0.5	<0.0005	0.00062	<0.0005	<0.0005	NA
	05/22/02	0.31	8.8	<0.5	<0.0005	0.00086	<0.0005	<0.0005	NA
	08/28/02	0.30	15	<0.5	<0.001	<0.001	<0.001	<0.001	NA
	11/06/02	0.37	13	<0.50	<0.0005	0.00057	<0.0005	<0.0005	NA
	02/20/03	<0.25	6.0	<0.5	0.0013	<0.0005	<0.0005	0.00055	NA
	06/10/03	0.45	19	<0.25	<0.001	<0.001	<0.001	<0.001	NA
	09/17/03	0.68	30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	11/20/03	1.1	89	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	02/26/04	<0.25	35	0.74	<0.0005	<0.0005	<0.0005	<0.0005	NA
	05/12/04	<0.25	3.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	08/25/04	<0.25	5.1	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	12/14/04	<0.25	1.1	<0.50	0.003	<0.001	<0.001	<0.001	NA
	03/10/05	<0.25	4.6	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	06/07/05	0.3	68.0	2.10	0.00069	<0.0005	<0.0005	<0.0005	NA
	09/20/05	0.6	1.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA
03/15/06	<0.25	1.7	<0.50	<0.0005	<0.0005	<0.0005	0.0005	NA	
06/08/06	<0.25	0.7	<0.50	<0.0005	<0.0005	<0.0005	0.0005	NA	
09/12/06	<0.25	0.65	<0.50	<0.0005	<0.0005	<0.0005	0.0005	NA	
	12/12/06	<0.25	0.98	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
A-14	12/20/00	<0.05	<0.25	<0.5	<0.001	<0.001	<0.001	<0.003	0.65
A-14R	02/14/02	<0.25	<0.25	<0.5	0.00061	0.0021	<0.0005	<0.0005	0.005*
	05/22/02	<0.25	<0.5	<0.5	0.00053	0.0021	<0.0005	0.00054	0.02*
	08/28/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	11/06/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/20/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.02*
	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.025*
	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.032*
	02/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.018*
	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0072*
	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
A-21	02/14/02	<0.25	<0.25	<0.5	<0.0005	0.001	<0.0005	<0.0005	<0.005*
	05/22/02	<0.25	<0.5	<0.5	0.00061	0.0017	<0.0005	0.00057	<0.005*
	08/29/02	<0.25	0.76	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	11/06/02	<0.25	0.37	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	<0.25	<0.5	<0.5	0.0013	0.0018	<0.0005	0.00061	<0.005*
	06/10/03	0.25	<0.25	<0.25	0.0082	0.00058	<0.0005	<0.0005	0.062*
	09/16/03	<0.25	<0.25	<0.50	0.0034	<0.0005	<0.0005	<0.0005	0.0085*
	11/19/03	0.47	<0.25	<0.50	0.061	0.0019	<0.0005	0.0029	0.0067*
	02/25/04	0.63	<0.50	<0.50	0.013	0.00066	0.045	0.0016	<0.0050*
	05/12/04	0.50	<0.25	<0.50	0.0019	<0.0005	0.0042	0.00072	<0.0050*
	08/25/04	0.26	<0.25	<0.50	0.0015	<0.0005	<0.0005	0.0015	<0.0050*
	12/14/04	0.99	<0.25	<0.50	0.061	0.0025	0.022	0.0083	<0.0050*
	03/10/05	1.5	0.26	<0.50	0.024	0.0021	0.0025	0.011	0.020*
	06/07/05	1.2	0.35	<0.50	0.0076	0.00084	0.00077	0.0043	<0.0050*
	09/20/05	1.3	<0.25	<0.50	0.011	0.0012	0.00066	0.0048	<0.0050*
	12/13/05	1.6	<0.25	<0.50	0.017	0.0016	0.0015	0.0052	<0.0050*
	03/15/06	0.97	<0.25	<0.50	0.0098	0.00097	0.0023	0.0033	<0.0050*
	06/08/06	0.82	<0.25	<0.50	0.0023	0.00059	<0.0005	0.0019	<0.0050*
	09/12/06	0.85	<0.25	<0.50	0.0019	<0.0005	<0.0005	0.0016	<0.0050*
	12/12/06	0.85	<0.25	<0.50	0.0071	<0.0005	0.0021	0.0014	<0.0050*
A-23R	02/14/02	0.26	2.1	<0.5	0.06	0.001	0.0099	0.0072	0.72 ^{ab}
	05/20/02	0.74	6.9	<0.5	0.15	<0.001	0.088	0.0067	0.095 ^{ab}
	08/28/02	0.62	2.1	<0.5	0.2	0.0035	0.021	0.0075	0.23*
	11/05/02	0.74	1.7	<0.5	0.22	<0.0015	0.0059	0.014	0.18*
	02/19/03	0.71	2.3	<0.5	0.26	0.0033	0.0054	0.0059	0.049*
	06/10/03	<0.25	1.8	<0.25	0.0073	<0.001	0.0028	<0.001	<0.005*
	09/16/03	0.70	1.3	<0.50	0.043	0.0029	0.057	0.0018	0.38*
	11/19/03	1.0	0.78	<0.50	0.08	0.0037	0.069	0.0035	0.13*
	02/25/04	1.6	0.78	<0.50	0.26	0.0072	0.061	0.015	0.081*
	05/12/04	0.28	0.45	<0.50	0.020	0.00075	0.0022	0.00082	<0.0050*
	08/25/04	2.3	0.35	<0.50	0.46	0.012	0.074	0.02	0.012*
	12/14/04	2.0	0.65	<0.50	0.37	0.0084	0.041	0.013	0.018*
	03/10/05	0.60	0.31	<0.50	0.035	0.0011	0.0045	0.0014	0.035*
	06/07/05	0.33	<0.25	<0.50	0.0080	<0.0005	0.0012	<0.0005	0.013*
	09/20/05	<0.25	<0.25	<0.50	0.00060	<0.0005	<0.0005	<0.0005	0.0096 ^a
	12/14/05	0.37	<0.25	<0.50	0.019	0.00056	0.00065	0.00058	0.032*
	03/15/06	1.1	<0.25	<0.50	0.34	0.0033	<0.0025	0.0051	<0.0050*
	06/08/06	0.34	<0.25	<0.50	0.033	<0.0005	<0.0005	0.031	0.0081*
	09/12/06	0.42	<0.25	<0.50	0.010	<0.0005	0.032	0.0013	0.035*
	12/12/06	2.1	<0.25	<0.50	0.520	0.0066	0.053	0.021	<0.0050*
Dup-1^a	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	0.42	<0.25	<0.50	0.020	0.00064	0.00081	0.00063	0.025*
	03/15/06	1.1	<0.25	<0.50	0.310	0.0036	0.0027	0.0052	0.0099*
	06/08/06	0.33	<0.25	<0.50	0.032	<0.0005	<0.0005	0.031	0.013*
	09/12/06	0.36	<0.25	<0.50	0.009	<0.0005	0.027	0.0011	0.12*
	12/12/06	2.2	<0.25	<0.50	0.520	0.0076	0.061	0.024	0.0077*

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**
Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
A-27	02/14/02	2.9	11	<0.5	0.13	0.014	0.096	0.25	NA
	05/22/02	3.3	8.2	<0.5	0.2	0.016	0.14	0.38	NA
	08/29/02	3.8	8.1	<0.5	0.24	0.016	0.14	0.29	NA
	11/06/02	3.2	8.0	<0.5	0.16	0.016	0.065	0.14	NA
	02/19/03	3.1	6.8	<0.5	0.17	0.017	0.052	0.13	NA
	06/10/03	3.7	4.5	<0.25	0.14	0.013	0.11	0.23	NA
	09/16/03	4.5	5.6	<0.50	0.27	0.02	0.18	0.38	NA
	11/19/03	5.9	5.3	<0.50	0.25	0.023	0.13	0.33	NA
	02/25/04	4.4	16.0	<0.50	0.15	0.016	0.18	0.30	NA
	05/11/04	4.6	5.2	<0.50	0.16	0.017	0.23	0.38	NA
	08/25/04	4.7	2.5	<0.50	0.25	0.018	0.17	0.24	NA*
	12/14/04	4.5	4.4	<0.50	0.11	0.012	0.099	0.14	NA
	03/10/05	5.8	4.7	<0.50	0.14	0.015	0.16	0.22	NA
	06/07/05	4.5	7.8	<0.50	0.17	0.014	0.24	0.34	NA
	09/20/05	6.3	2.3	<0.50	0.25	0.019	0.18	0.22	NA
	12/13/05	3.7	0.83	<0.50	0.13	0.012	0.083	0.095	NA
	03/15/06	4.4	1.3	<0.50	0.13	0.017	0.19	0.24	NA
06/08/06	4.5	1.1	<0.50	0.19	0.016	0.23	0.28	NA	
09/12/06	3.4	0.82	<0.50	0.17	0.011	0.12	0.12	NA	
	12/12/06	3.7	0.90	<0.50	0.110	0.0096	0.10	0.12	NA
A-28R	02/14/02	5.3	2.7	<0.5	0.66	0.027	0.42	0.2	0.035*
	05/22/02	3.1	6.7	<0.5	0.14	0.01	0.2	0.092	0.05*
	08/29/02	4	6	<0.5	0.15	0.019	0.23	0.078	0.032*
	11/06/02	3.4	1.8	<0.5	0.47	0.015	0.053	0.05	0.028*
	02/19/03	3.5	4.6	<0.5	0.46	0.015	0.051	0.05	0.013*
	06/10/03	3.7	2.9	<0.25	0.31	0.0081	0.085	0.051	0.064*
	09/16/03	3.8	2.0	<0.50	1.0	0.013	0.075	0.048	0.17*
	11/19/03	4.9	<0.25	<0.50	0.58	0.012	0.059	0.064	0.11*
	02/25/04	5.1	1.7	<0.50	0.63	0.0093	0.19	0.076	0.0080*
	05/12/04	6.5	2.6	<0.50	0.96	0.012	0.20	0.058	<0.0050*
	08/25/04	5.9	0.88	<0.50	2.1	0.018	0.05	0.053	0.043*
	12/14/04	7.6	3.0	<0.50	1.4	0.015	0.073	0.062	0.025*
	03/10/05	10	0.76	<0.50	1.9	0.019	0.077	0.064	0.0078*
	06/07/05	6	1.20	<0.50	2.1	0.015	0.069	0.048	0.0068*
	09/20/05	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/05	5.4	<0.25	<0.50	0.93	0.011	0.033	0.036	0.012*
	03/15/06	4.6	<0.25	<0.50	0.80	0.012	0.11	0.035	<0.0050*
06/08/06	4.2	0.49	0.73	0.87	0.013	0.07	0.035	0.019*	
09/12/06	5.2	<0.25	<0.50	1.0	0.015	0.048	0.036	0.016*	
	12/12/06	4.0	0.57	<0.50	0.30	0.0095	0.027	0.028	<0.0050*
SH-02	12/20/00	0.078	<0.25	<0.5	0.001	<0.001	<0.001	<0.003	0.015**
SH-02R	02/13/02	<0.25	0.56	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	05/21/02	<0.25	2.4	<0.5	0.037	<0.0005	<0.0005	<0.0005	0.005*
	08/28/02	<0.25	4.3	<0.5	0.087	0.0038	0.00061	0.0023	0.006*
	11/05/02	<0.25	1.1	<0.5	0.016	<0.0005	<0.0005	<0.0005	0.005*
	02/19/03	<0.25	<0.5	<0.5	<0.0005	0.00086	<0.0005	<0.0005	<0.005*
	06/10/03	<0.25	0.97	<0.25	<0.0005	0.00051	<0.0005	<0.0005	0.0059*
	09/16/03	<0.25	3.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.010*
	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/12/04	<0.25	0.74	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	0.58	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.58	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	0.30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0078*
	03/14/06	<0.25	0.30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0072*
06/07/06	<0.25	0.59	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	
09/13/06	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	
	12/13/06	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*

**TABLE 2
GROUNDWATER ANALYTICAL RESULTS**

Kinder Morgan Liquid Terminals, LLC
Harbor Island Terminal
2720 13th Avenue Southwest
Seattle, Washington


Sample I.D.	Date	TPH-Gasoline (ppm)	TPH-Diesel (ppm)	TPH-Oil (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	Total Lead (ppm)
SH-05	12/20/00	<0.05	1.0	<0.5	<0.001	<0.001	<0.003	<0.001	0.017**
SH-05R	05/21/02	0.71	11	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	08/28/02	0.77	10	<0.5	<0.0005	0.0015	<0.0005	<0.0005	0.006*
	11/05/02	1.4	7.1	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.008*
	02/19/03	0.8	6.8	<0.5	<0.001	0.0016	<0.001	<0.001	<0.005*
	06/10/03	1.1	45	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.04*
	09/16/03	<0.25	23	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.074*
	11/19/03	0.62	19	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.075*
	02/25/04	<0.25	5.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/12/04	0.43	4.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	0.63	3.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050
	12/15/04	0.30	10	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0056*
	03/09/05	0.78	4.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	0.32	4.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	0.61	2.8	1.0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	0.78	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0074*
	06/07/06	<0.25	1.4	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*
	09/13/06	0.34	0.56	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/13/06	<0.50	1.9	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050*
MW-07R	02/13/02	<0.25	1.2	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.035*
	05/21/02	<0.25	2.1	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.005*
	08/28/02	<0.25	2.4	<0.5	<0.0005	0.0028	<0.0005	0.0012	0.006*
	11/05/02	<0.25	3.7	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*
	02/19/03	NS	NS	NS	NS	NS	NS	NS	NS
	06/10/03	NS	NS	NS	NS	NS	NS	NS	NS
	09/16/03	<0.25	1.9	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.045*
	11/19/03	<0.25	2.1	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.020*
	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	05/12/04	<0.25	0.48	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	08/26/04	<0.25	0.42	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	NA*
	12/15/04	<0.25	0.85	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0076*
	03/09/05	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/08/05	<0.25	0.46	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/21/05	<0.25	0.70	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	03/14/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*
	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0065
	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*

Notes:
 < = Denotes compound was not detected at designated detection limit.
 NA = Not analyzed for this parameter
 NS = Not sampled
 ^ = Dup-1 is a duplicate sample for A-23R; Dup-2 is a duplicate sample for MW-3.
 * = Also tested for Dissolved Lead (EPA-200.8), results are below detection limit of 0.0050 ppm.
 ** = Also tested for Dissolved Lead (EPA-200.8), results are at or above detection limit of 0.0050 ppm.
 *** = Also tested for Dissolved Lead (EPA-7421), results are below detection limit of 0.004 ppm.
^a = Insulating oil range hydrocarbons were reported for MW-22 at concentration of 0.87 ppm.
 TPH as gasoline - Analysis by Washington Method WTPH-G prior to 5/20/98; analysis by Northwest Method NWTPH-Gx from 5/20/98 through present.
 TPH as diesel and oil - Analysis by Washington Method WTPH-D+ extended prior to 5/20/98; analysis by Northwest Method NWTPH-Dx from 5/20/98 through present.
 BTEX Compounds - Analysis by EPA Method 8020 prior to 5/20/98; analysis by EPA Method 8021B from 5/20/98 through present.

TABLE 3
ANALYTICAL SUMMARY 2000 - DECEMBER 2006
CURRENT GROUNDWATER COMPLIANCE PROGRAM
 Kinder Morgan Harbor Island Terminal

Well ID	Indicator Hazardous Substances, concentration in mg/L							
	TPH-G	Benzene	Ethylbenzene	Toluene	TPH-D	TPH-O	Total Lead	Dissolved Lead
Cleanup Criteria	1.0	0.071	29.0	200.0	10	10	0.0058	--
A-5	ND - 0.54	ND - 0.12, >0.071 on 12-06	ND	ND - 0.0036	ND - 5.2	ND - 1.7		
A-8	ND - 0.35	ND - 0.0012	ND	ND - 0.0014	ND - 4.9	ND - 1.5		
A-10	ND - 1.1, <1 since 02-04	ND - 0.0030	ND	ND - 0.00086	ND - 89, <10 since 09-05	ND - 2.1		
A-14R	ND	ND - 0.002	ND	ND - 0.0021	ND	ND	ND-0.032 <0.0058 since 06-05	ND
A-21	ND - 1.6, <1 since 03-06	ND - 0.061, <0.071 since 06-01	ND - 0.045	ND - 0.0025	ND - 0.76	ND	ND-0.062 <0.0058 since 06-05	ND
A-23R	ND - 2.3, >1 on 12-06	0.00060 - 0.46, >0.071 on 12-06	ND - 0.088	ND - 0.012	ND - 6.9	ND	ND - 0.72 <0.0058 since 09-06	detected
A-27	2.0 - 6.3, >1 on 12-06	0.11 - 0.27	0.04 - 0.24	0.009 - 0.023	0.83 - 16, <10 since 05-04	ND		
A-28R	3.1 - 10	0.14 - 2.1	0.033 - 0.42	0.0081 - 0.027	ND - 6.7	ND	ND - 0.17 <0.0058 since 12-06	ND
MW-1	ND - 0.83	ND - 0.0013	ND - 0.0020	ND - 0.0067	ND - 2.0	ND	ND - 0.021 <0.0058 since 02-03	ND
MW-2	ND	ND	ND	ND - 0.00071	ND - 0.91	ND	ND - 0.062 since 09-06	detected
MW-3	ND - 45, <1 since 02-02	ND - 0.36, <0.071 since 02-03	ND - 0.23	ND - 0.18	ND - 17, <10 since 12-00	ND - 0.68	ND - 0.042 <0.0058 since 03-05	ND
MW-4	ND - 3.3, <1 since 06-03*	ND - 1.1, <0.071 since 02-03	ND - 0.034	ND - 0.023	1.1 - 280, <10 since 12-05	ND - 2.6		
MW-5	ND - 0.13	ND - 0.019	ND	ND - 0.0018	ND - 1.6	ND	ND - 0.11 >0.0058 on 12-06	ND
MW-6	ND - 1.1, <1 since 03-06	ND - 0.19, <0.071 since 09-01	ND - 0.0050	ND - 0.0070	ND - 7.3	ND	ND - 0.052 since 03-05	ND
MW-7	0.26 - 18, >1 on 09-06	ND - 0.34, >0.071 on 09-06	ND - 0.69	ND - 0.37	ND - 21, <10 since 12-04	ND - 0.81	0.0083 - 0.23 >0.058 on 09-06	detected
MW-8	ND	ND - 0.0013	ND	ND - 0.00086	0.54 - 42, <10 since 03-01	ND - 2.9	ND - 0.069 <0.0058 since 12-06	ND
MW-9	ND - 10, >1 on 12-06	ND - 0.038	0.020 - 0.23	0.0034 - 0.049	1.2 - 39 <10 since 05-04	ND - 0.72	ND - 0.053 >0.0058 on 12-06	ND
MW-12R	ND - 0.56	ND - 0.26, <0.071 since 12-04	ND	ND - 0.0059	ND - 2.5	ND	ND - 0.013 <0.0058 since 05-04	ND
MW-13R	ND	ND - 0.056	ND	ND - 0.0032	ND - 3.5	ND	ND - 0.012 <0.0058 since 05-04	ND
MW-14	ND - 6.8, >1 on 12-06	ND - 0.48, <0.071 since 02-04	0.019 - 0.26	ND - 0.014	2.0 - 37, <10 since 12-05	ND - 1.1		
MW-16	ND - 0.88	ND - 0.029	ND - 0.0010	ND - 0.0037	ND - 1.7	ND		
MW-18	ND - 7.6, <1 since 09-06	ND - 1.8, <0.071 since 09-06	ND - 0.29	ND - 0.067	ND - 0.77	ND		
MW-19	4.2 - 68	ND - 1.4, <0.071 since 06-06	0.16 - 1.1	0.12 - 4.0	0.72 - 19 <10 since 08-04	ND		
MW-20	ND - 1.8, <1 since 03-01	ND - 0.68, <0.071 since 02-02	ND - 0.067	ND - 0.020	ND - 5.0	ND - 0.7		
MW-21	ND - 4.3, SPH on 12-06	ND	ND - 0.019	ND - 0.006	6.1 - 140, SPH on 12-06	ND - 3.3 SPH on 12-06		
MW-22	ND - 5.1, <1 since 11-02	ND - 1.9, <0.071 since 02-03	ND - 0.35	ND - 0.097	0.61 - 9.2	ND - 0.87		
SH-02R	ND - 0.078	ND - 0.087, <0.071 since 11-02	ND - 0.00061	ND - 0.0038	ND - 4.3	ND	ND - 0.010 <0.0058 since 06-06	ND
SH-05R	ND - 1.4, <1 since 09-03	ND	ND	ND - 0.0016	1.3 - 45, <10 since 03-05	ND - 1.0	ND - 0.075 <0.0058 since 03-05	ND
MW-07R	ND	ND	ND	ND - 0.0028	ND - 3.7	ND	ND - 0.045 <0.0058 since 12-06	ND
MW-23	SPH, 4.2 - 7.0 >1 on 12-06	0.87 - 1.4 >0.071 on 12-06	0.046 - 0.19	0.011 - 0.023	SPH, ND - 1.4	ND	ND - 0.014 <0.0058 since 12-05	ND
MW-24	SPH, 26 - 34	2.8 - 4.4	0.88 - 1.4	0.064 - 0.54	SPH, 0.34 - 6.4	ND - 0.54	ND - 0.0069 >0.0058 on 12-07	ND
MW-25	ND - 0.40	ND - 0.013	ND - 0.0034	ND	0.27 - 8.9	ND	ND - 0.034	detected

Notes: * ND but detection limit > 1 during 2 events in 2005

 Recommend reduction in monitoring frequency and/or parameters

 Parameter not analyzed

TABLE 4
PROPOSED GROUNDWATER COMPLIANCE PROGRAM
RECOMMENDED MONITORING FREQUENCY
Kinder Morgan Harbor Island Terminal

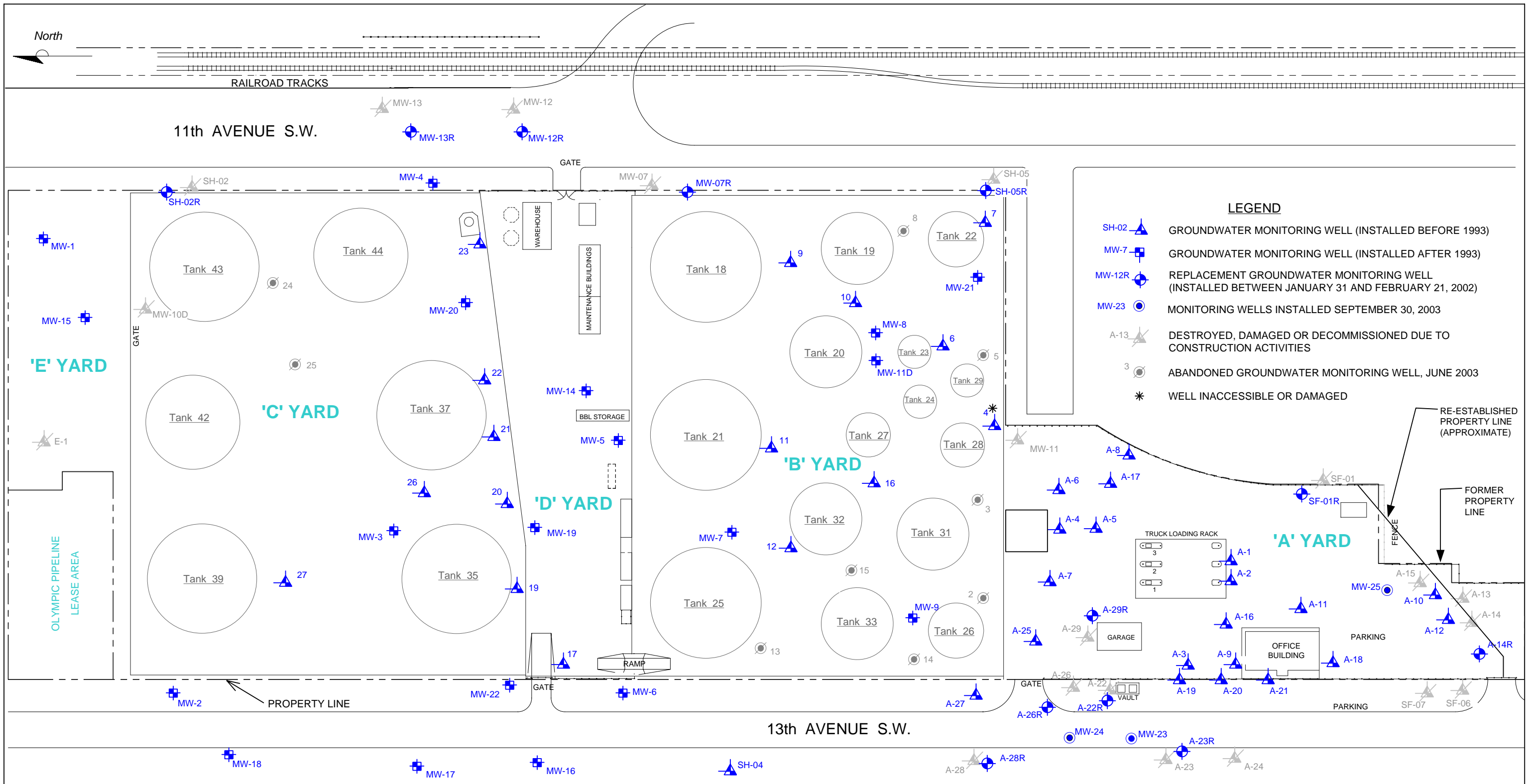
Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D/TPH-O	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	Quarterly	Discontinue							
A-8	Annual	Annual							
A-10	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
A-14R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
A-21	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
A-23R	Quarterly	Discontinue	Annual	Annual	Annual	Annual	Annual	Annual	Annual
A-27	Quarterly	Discontinue			Annual	Annual	Annual	Annual	Annual
A-28R	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-1	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-2	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-3	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-4	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-5	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-6	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-7	Quarterly	Discontinue	Annual	Annual	Annual	Annual	Annual	Annual	Annual
MW-8	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-9	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-12R	Annual	Annual	Annual	Discontinue					
MW-13R	Annual	Annual	Annual	Discontinue					
MW-14	Quarterly	Discontinue			Annual	Annual	Annual	Annual	Annual
MW-16	Annual	Annual							
MW-18	Quarterly	Discontinue							
MW-19	Quarterly	Discontinue			Annual	Annual	Annual	Annual	Annual
MW-20	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-21	Quarterly	Quarterly			Annual	Annual	Annual	Annual	Annual
MW-22	Annual	Annual			Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
SH-02R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
SH-05R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-07R	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue
MW-23	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-24	Quarterly	Discontinue	Annual	Discontinue	Annual	Annual	Annual	Annual	Annual
MW-25	Annual	Annual	Annual	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue	Discontinue

Notes: Recommended reduced monitoring frequency

 Parameter not analyzed

TABLE 5
PROPOSED ANNUAL ANALYSES
GROUNDWATER COMPLIANCE PROGRAM
 Kinder Morgan Harbor Island Terminal

Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D+ extended	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	4	0							
A-8	1	1							
A-10	1	1			0	0	0	0	0
A-14R	1	1	1	0	0	0	0	0	0
A-21	4	0	1	0	1	1	1	1	1
A-23R	4	0	1	1	1	1	1	1	1
A-27	4	0			1	1	1	1	1
A-28R	4	0	1	0	1	1	1	1	1
MW-1	1	1	1	0	0	0	0	0	0
MW-2	1	1	1	0	0	0	0	0	0
MW-3	1	1	1	0	0	0	0	0	0
MW-4	1	1			0	0	0	0	0
MW-5	1	1	1	0	0	0	0	0	0
MW-6	4	0	1	0	1	1	1	1	1
MW-7	4	0	1	1	1	1	1	1	1
MW-8	1	1	1	0	0	0	0	0	0
MW-9	4	0	1	0	1	1	1	1	1
MW-12R	1	1	1	0					
MW-13R	1	1	1	0					
MW-14	4	0			1	1	1	1	1
MW-16	1	1							
MW-18	4	0							
MW-19	4	0			1	1	1	1	1
MW-20	1	1			0	0	0	0	0
MW-21	4	4			1	1	1	1	1
MW-22	1	1			0	0	0	0	0
SH-02R	1	1	1	0	0	0	0	0	0
SH-05R	1	1	1	0	0	0	0	0	0
MW-07R	1	1	1	0	0	0	0	0	0
MW-23	4	0	1	0	1	1	1	1	1
MW-24	4	0	1	0	1	1	1	1	1
MW-25	1	1	1	0	0	0	0	0	0
Annual Total	74	22	20	2	12	12	12	12	12



LEGEND

- SH-02 ▲ GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 ■ GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
- MW-12R ● REPLACEMENT GROUNDWATER MONITORING WELL (INSTALLED BETWEEN JANUARY 31 AND FEBRUARY 21, 2002)
- MW-23 ● MONITORING WELLS INSTALLED SEPTEMBER 30, 2003
- A-13 ▲ DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
- 3 ● ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
- * WELL INACCESSIBLE OR DAMAGED

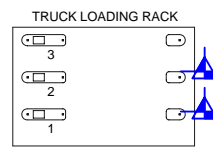
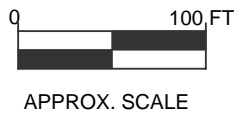


FIGURE 1
SITE MAP
 KINDER MORGAN LIQUID TERMINALS, LLC
 HARBOR ISLAND TERMINAL
 2720 13th AVENUE SOUTHWEST
 SEATTLE, WASHINGTON

PROJECT NO. STKM-001-M.0005	DRAWN BY DL March 2007	
FILE NO. STKM-001-M.0005	PREPARED BY DL March 2007	
REVISION NO. 0	REVIEWED BY WC	



September 4, 2008

Mr. Roger Nye
Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue N.E.
Bellevue, Washington 98008-5452

Sent via FedEx Saver

SUBJ: Technical Revision Request – Low-Flow Groundwater Sampling
Kinder Morgan Harbor Island Terminal
Seattle, Washington
Delta Project No. STKM-001-P.0005



Dear Mr. Nye:

Delta Consultants (Delta) has prepared this request on behalf of Kinder Morgan Liquid Terminals, LLC (KMLT) to propose a technical revision to Appendix A (Compliance Sampling and Analysis Plan) of the Compliance Monitoring Plan, dated October 27, 1999. This letter request supersedes a previous request, dated July 16, 2008. The Compliance Monitoring Plan was included as Appendix F of the Model Toxics Control Act (MTCA) Consent Decree 00-2-07760-25EA, which was executed to implement remedial actions for the site. As discussed in a March 31, 2008 telephone conversation with you, KMLT is proposing a revision to Section 2.3.2, Sampling Procedures, of the Compliance Sampling and Analysis Plan (Plan) to replace the purge-sampling methodology with low-flow sampling techniques.

CURRENT PURGE-SAMPLING PROCEDURES

Sampling ground water traditionally involves purging a monitoring well to remove stagnant water in the well casing prior to sampling. The current sampling procedure incorporated into the Plan includes purging three to five volumes of the well prior to collecting a groundwater sample. This well evacuation approach can pose several problems, including: 1) as the well recovers, groundwater cascading in the well screen can affect contaminant and dissolved gas concentrations; 2) draining water from the sand pack surrounding the screen can result in air being trapped in the pore spaces, also affecting dissolved gas concentrations; and 3) increased turbidity can affect total and dissolved metal concentrations.

In the Revised Site-Wide Groundwater Compliance Monitoring Plan, dated June 21, 2007, Delta presented an evaluation of historical groundwater analytical results with respect to established cleanup criteria. During the preparation of the Revised Plan, Delta and Ecology discussed the periodic occurrence of dissolved lead in the wells sampled. These occurrences appeared to be random, with no apparent trend to the occurrence.

a member of:



At the time, it was mentioned that turbulence created during sampling may have caused the occurrence of dissolved lead. Eliminating turbulence during sampling may end or reduce this occurrence.

PROPOSED LOW-FLOW SAMPLING PROCEDURES

Low-flow/low-volume sampling is a method that can be used to overcome many of the problems created by traditional purge-sampling. Low-flow sampling can minimize turbidity and minimize groundwater chemistry alteration. By pumping at very low flowrates from the well screen zone, disturbance to the water column in the well is significantly reduced and stress on the surrounding formation is minimized. Samples obtained in this manner will better reflect contaminant concentrations and ground-water chemistry at ambient flow conditions.

Sampling Procedures

KMLT proposes to replace Section 2.3.2 of the Compliance Sampling and Analysis Plan with the following low-flow procedures for sampling the site's compliance wells.

Water Level Measurements

Water level measurements will be taken prior to purging and will be recorded to the nearest 0.01 foot. Measurements will be taken from least contaminated wells first followed by wells in increasing order of contamination. If product is observed, the thickness will be measured with an electronic oil/water interface meter. Wells with measurable product will not be purged or sampled.

Monitoring Well Purging

Purging will be conducted in a manner such that water levels do not drop more than two feet below static. Wells will be purged using dedicated downhole tubing connected to a surface portable peristaltic pump. The pump rate will be monitored and set at a rate of less than 1,000 ml/min. During purging, the following parameters will be monitored: dissolved oxygen, pH, specific conductance, temperature, turbidity, and depth to water. Field parameters will be measured in a flow-through container. Water level data will be collected with an electronic indicator probe. Measurements will be taken beginning with the first water purged from the well. During purging, additional measurements will be taken and recorded as frequently as possible. Measurements will be recorded to the following standards: dissolved oxygen to 0.05 mg/L; pH to ± 0.01 units; specific conductance to \pm uS/cm (measured specific conductance ≤ 99 uS/cm), to ± 10 uS/cm (99 uS/cm < specific conductance < 1,000 uS/cm), or to ± 100 uS/cm (measured specific conductance > 1,000 uS/cm); temperature to $\pm 0.5^\circ\text{C}$; and turbidity to 0.1 NTU. The meters will be calibrated near the beginning and end of each sampling day.

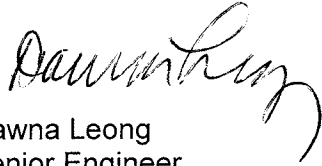
Groundwater samples will be collected after specific conductance and dissolved oxygen measurements are within 10 percent for 3 consecutive readings.

Sample Collection

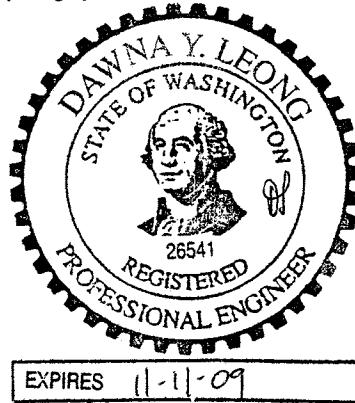
Following purging, samples will be collected for laboratory analyses. Samples will be pumped directly into laboratory-supplied sample containers, and each sample bottle will be labeled with the sample identification number, the sample date, the facility name, and the name of the technician who performed the sampling. Samples will be collected in the following order: TPH-G/BTEX, methane (if analyzed, TPH-Dx, metals (if analyzed), and field analytes (if analyzed). Duplicate samples will be collected by alternately filling the sample and the duplicate sample bottles.

KMLT proposes to implement the low-flow sampling procedures described herein upon approval from Ecology. Please call if you have any questions regarding the contents of this letter, or if you would like to discuss any aspect of the proposed sampling procedures. Delta looks forward to your approval of this proposal.

Sincerely,
DELTA CONSULTANTS, INC.



Dawna Leong
Senior Engineer



cc: Mr. Robert Truedinger, Kinder Morgan Energy Partners, L.P., Richmond, California (Electronic Copy)
Ms. Kelsy Hardy, Kinder Morgan Energy Partners, L.P., Orange, California (File Copy - CD Only)



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

August 7, 2007

Robert Truedinger
Remediation Project Manager
Kinder Morgan Energy Partners
1140 Canal Boulevard
Richmond, CA 94804

Re: Reduced Groundwater Monitoring Plan

Dear Mr. Truedinger:

This letter is to indicate the Department of Ecology's approval of the Site-Wide Groundwater Compliance Monitoring Plan – Proposed Reduced Monitoring, as presented in Delta Environmental Consultants' submittal dated June 21, 2007.

Sorry that this approval has taken awhile. Further adjustments / reductions in the monitoring may be appropriate in the future.

Sincerely,

A handwritten signature in cursive script that reads "Roger K. Nye".

Roger K. Nye
Project Coordinator

cc: Ward Crell, Dawna Leong: Delta Environmental Consultants





Attachment B

Groundwater Monitoring Field
Data Sheets



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 4-22-14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-4					6.71	12.58	3.1 ppm
A-5					7.50	14.88	14.3 ppm
A-6					6.32	Not Measured	29.6 ppm/salts
A-8					7.52	24.80	39.4 ppm
A-10					6.65	24.15	0.0 ppm
A-11	9:12				7.56	24.60	0.0 ppm
A-12					6.29	22.30	0.0 ppm
A-14R	8:57				7.36	14.92	0.0 ppm
A-16	9:18				7.66	13.95	0.0 ppm
A-18	9:02				7.34	13.77	0.0 ppm
A-19					7.72	14.15	0.0 ppm
A-20					7.38	13.65	0.0 ppm
A-21					7.59	14.62	0.0 ppm
A-22R					7.11	14.66	5.28 ppm
A-23R					5.74	15.90	0.4 ppm
A-25					7.03	13.87	89.5 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-26R					7.23	14.44	319.8 ppm
A-27							
A-28R							
11							
12							
MW-07R					5.56	12.78	0.0 ppm
MW-1					5.05	13.10	0.0 ppm
MW-2							
MW-3							
MW-4					5.84	15.23	17.2 ppm
MW-5							
MW-6							
MW-7							
MW-8							
MW-9							
MW-12R					6.90	14.28	1.3 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
MW-14							
MW-16							
MW-18							
MW-19	0858	Sheen odor	-	-	1.81	13.05	PID = 31.9 ppm = add back
MW-20	1028	-	-	-	2.33	11.94	PID = 0.0 ppm LEL = 80%
MW-21	1003	-	-	-	2.37	11.09	PID = 1.8 ppm
MW-22							
MW-23							
MW-24							
MW-25							
SH-02R							
SH-05R							
TMW-B1							
TMW-1							
TMW-2							
TMW-3	0916	-	-	-	2.41	15.70	PID = 19.9 ppm



Site ID: **KMLT - Harbor Island**

Project #: **WA000804.2014.00003**

Site Address: **2720 13th Ave SW, Seattle, WA**

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
TMW-4							
TMW-5							
TMW-6	0952	—	—	—	1.72	14.02	PID = 141 ppm LEL = 7%



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 4/22/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-4							
A-5							
A-6							
A-8							
A-10							
A-11							
A-12							
A-14R							
A-16							
A-18							
A-19							
A-20							
A-21							
A-22R							
A-23R							
A-25							



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 4/22/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-26R							
A-27	11:34	strong odor	--	3.00	10.11	18.15	712 ppm PID
A-28R	11:26	strong odor	--	0.00	7.59	14.28	1500 ppm PID
11	9:32	No / No	--	0.00	3.29	10.86	0.0 ppm PID stick up
12							
MW-07R							
MW-1							
MW-2	11:01	No / No	--	0.00	6.21	12.87	PID = 0.0
MW-3	10:22	No / No	--	0.00	2.06	12.75	0.0 ppm PID 113 volts
MW-4							
MW-5							
MW-6	11:51	No / No	--	0.00	6.71	13.09	0.0 ppm PID
MW-7	9:16	True No / Yes	--	0.00	1.45	13.10	PID: 25.0 ppm 3/3 volts water is unit
MW-8	9:59	No / No	--	0.00	2.65 2.09	13.16 13.09	-PID: 4.0 ppm 3/3 volts, casing resealed in 2' down
MW-9	9:50	No / Yes	--	0.00	2.07	13.09	PID 5.8 ppm 100% LEL
MW-12R							



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 4/22/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
MW-14	8:44	No/No	--	0.00	2.19	13.65	0.0 ppm 3/3 bolts
MW-16	11:21	No/No	--	0.0	6.12	14.05	0.0 ppm PID
MW-18	11:16	No/No	--	0.00	0.20	13.54	0.0 ppm PID 3% LEL
MW-19							
MW-20							
MW-21							
MW-22	11:03	No/No	--	0.00	7.22	13.29	0.0 ppm VOCs 3/3 bolts
MW-23							
MW-24							
MW-25							
SH-02R							
SH-05R							
TMW-B1	11:41	Odor	--	0.00	6.99	14.78	478 ppm PID
TMW-1	9:03	No/No	--	0.00	2.09	15.19	0.0 ppm PID 3/3 bolts
TMW-2	8:53	No/No	--	0.00	2.36	15.62	4.3 ppm PID 3/3 bolts, water in unit
TMW-3							



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date: 4/22/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
TMW-4	9:25	Trace / yes	--	0.00	2.20	15.47	160 ppm PID
TMW-5	9:40	No / yes	--	0.00	2.42	14.42	21.3 ppm PID
TMW-6	9:50	/					5.8 ppm PID not at 15.2



Site ID: KMLT - Harbor Island

Project #: WA000804.2014.00003

Site Address: 2720 13th Ave SW, Seattle, WA

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-26R							
A-27							
A-28R							
11							
12	0937	Sheen	—	—	0.88	7.54	PID - 31.7 ppm - sock added
MW-07R							
MW-1							
MW-2							
MW-3							
MW-4							
MW-5	0849	—	—	—	1.79	13.29	PID - 0.0 ppm
MW-6							
MW-7							
MW-8							
MW-9							
MW-12R							



Site ID: **KMLT - Harbor Island**

Project #: **WA000804.2014.00003**

Site Address: **2720 13th Ave SW, Seattle, WA**

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-4							
A-5							
A-6							
A-8							
A-10							
A-11							
A-12							
A-14R							
A-16							
A-18							
A-19							
A-20							
A-21							
A-22R							
A-23R							
A-25							



Site ID: **KMLT - Harbor Island**

Project #: **WA000804.2014.00003**

Site Address: **2720 13th Ave SW, Seattle, WA**

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
MW-14							
MW-16							
MW-18							
MW-19							
MW-20							
MW-21							
MW-22							
MW-23					7.25	14.86	971.2 ppm
MW-24					7.20	14.84	322.8 ppm
MW-25					7.09	14.80	0.0 ppm
SH-02R					4.76	14.50	0.6 ppm
SH-05R					6.59	13.71	0.1 ppm
TMW-B1							
TMW-1							
TMW-2							
TMW-3							



Site ID: **KMLT - Harbor Island**

Project #: **WA000804.2014.00003**

Site Address: **2720 13th Ave SW, Seattle, WA**

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
TMW-4							
TMW-5							
TMW-6							

ARCADIS Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID A-5

Date 7/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4

Well Material X PVC SS

Static Water Level (ft-btoc) 7.50 Total Depth (ft-btoc) 18.46 Water Column/Gallons in Well 10.96

Initial PID Reading (ppm) 1.4

TOC Elevation 14.13 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1249/1309 Volumes Purged <1

Other

Sample Time: Label 1320 Replicate/Code No. NA
Start 1300
End 1309

Sampled by KU

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1251	2	400	7.53		7.13	1.23	14.6	5.59	13.30	-63	clear	no
1256	7	400	7.53		7.21	0.974	1.6	1.40	13.28	-73	↓	↓
1259	10	400	7.53		7.17	0.929	2.0	0.68	13.27	-77	↓	↓
1302	13	400	7.53		7.15	0.921	2.0	0.71	13.22	-80	↓	↓
1305	16	400	7.53		7.12	0.918	1.7	0.65	13.23	-82	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	<u>20L</u>	<u>1</u>	<u>HCl</u>
BTEX	<u>"</u>	<u>2</u>	<u>↓</u>

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	<u>4" = 0.653</u>	

Well Information

Well Location: NE of fueling tank in A yard Well Locked at Arrival: Yes / NO

Condition of Well: No seal or seal - fair Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID A-10

Date 4/23/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather cloudy 50°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4

Well Material X PVC SS

Static Water Level (ft-btoc) 6.61 Total Depth (ft-btoc) 24.19 Water Column/ Gallons in Well

Initial PID Reading (ppm)

TOC Elevation: 13.51 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1204 Volumes Purged Centrifugal Submersible Other

Sample Time: Label 1230 Replicate/ Start 1230 Code No. End 1245

Sampled by SL

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1210	0	180	6.63		6.78	19.5	480	1.42	13.92	-95	clear	Ø
1215	5	180	6.63		6.81	19.9	363	0.98	14.63	-111	cloudy	Ø
1220	10	150	6.63		6.82	19.7	337	0.96	14.70	-113	cloudy	Ø
1225	15	180	6.62		6.83	19.7	314	0.92	14.90	-116	cloudy	Ø
1230	20	180	6.62		6.84	19.5	294	1.03	15.02	-117	cloudy	Ø
1235	25	180	6.63		6.85	19.3	281	0.91	15.13	-119	cloudy	Ø

Constituents Sampled	Container	Number	Preservative
GRO			
DRO			
HO			
BTEX			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

Project No. WA000804.2014.00003 Well ID A-14R

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather overcast, 60°F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2

Well Material X PVC
SS

Static Water Level (ft-btoc) 7.26 Total Depth (ft-btoc) 14.13 Water Column/Gallons in Well 6.67

Initial PID Reading (ppm) 0.4

TOC Elevation 14.21 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1110/1137 Volumes Purged > 1

Other

Sample Time: Label 1135 Replicate/Code No. NA

Sampled by RH

Start 1132 End 1137

Time	Minutes Elapsed	Rate (gpm)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1113	3	300	7.38	0.2	7.07	9.36	11.4	2.42	12.98	-44	clear	yes
1116	6	300	7.38	0.5	7.01	9.63	9.0	3.23	13.11	-40	↓	↓
1119	9	300	7.38	0.7	6.98	9.83	8.9	0.90	13.15	-37	↓	↓
1122	12	300	7.38	0.9	6.98	9.94	8.5	0.73	13.21	-35	↓	↓
1125	15	300	7.38	1.1	7.00	10.1	7.7	0.61	13.24	-33	↓	↓
1128	18	300	7.38	1.3	7.05	10.1	7.5	0.56	13.25	-33	↓	↓
1131	21	300	7.38	1.5	7.00	10.1	7.2	0.55	13.25	-32	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	USA	1	X4
DRO	↓	1	↓
HO	↓	1	↓
BTEX	↓	3	↓
Total Lead	poly	1	HNO ₃

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: S boundary of A Yard Well Locked at Arrival: Yes / NO

Condition of Well: SW part of A Yard Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID A-21 Date 4/23/14 Page 1 of 1

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather cloudy 45

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4 Well Material PVC SS

Static Water Level (ft-btoc) 7.49 Total Depth (ft-btoc) 14.50 Water Column/ Gallons in Well _____ Initial PID Reading (ppm) 0.0

TOC Elevation 14.35 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-Flow Centrifugal Submersible Other _____ Sample Method Peristaltic Pump

Pump On/Off 1047 Volumes Purged _____ Sampled by SW

Sample Time: Label 1120 Replicate/ Code No. _____ Start 1122 End 1130

Stabilized Range: ~5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1055	0	150	7.51		7.14	1.25	17.5	1.55	11.24	201		
1100	5	150	7.44		7.34	4.53	10.4	0.72	11.42	-75		
1115	20	150	7.49		7.44	4.89	0.0	0.67	11.54	-89		
1130	25	150	7.49		7.45	4.90	0.0	0.67	11.56	-89		

Constituents Sampled	Container	Number	Preservative
GRO	_____	_____	_____
BTEX	_____	_____	_____
Total Lead	_____	_____	_____
Nitrate	_____	_____	_____
Sulfate	_____	_____	_____
Sulfide	_____	_____	_____
Ferrous Iron	_____	_____	_____
Methane	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: A-21 Well Locked at Arrival: Yes / No

Condition of Well: Good 1 bolt Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID A-23R Page 1 of 1
 Date 4-22-2014

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Partly Cloudy

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2 Well Material PVC SS
 Static Water Level (ft-btoc) 5.74 Total Depth (ft-btoc) 15.10 Water Column/ Gallons in Well 1 Initial PID Reading (ppm) 0.1

TOC Elevator 15.57 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other
 Pump On/Off 12:24 Volumes Purged _____ Sample Method Peristaltic Pump

Sample Time: Label 1335 1336 1339 1342 1345 Replicate/ Code No. NA Sampled by GE/KM
 Start 12:46 End 12:51

Stabilized Range: 1351 ~5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMnOg) (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
12:40	3											
12:50	6											
13:33	8:06											
1336	2	300	5.78	<0.1	6.20	28.3	3.0	3.49	11.11	27	Clear	None
1339	6	300	5.79	0.2	6.36	27.6	7.5	2.17	11.07	18	"	"
1342	9	200	5.79	0.4	6.47	27.0	7.1	1.93	11.06	2	"	"
1345	12	300	5.80	0.6	6.50	26.8	6.5	1.90	11.05	-4	"	"

Constituents Sampled	Container	Number	Preservative
GRO	Refer to Chain of Custody		
BTEX			
Total Lead			
Dissolved Lead			
Nitrate			
Sulfate			
Sulfide			
Ferrous Iron			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No
 Condition of Well: Good Well Locked at Departure: Yes / No
 Well Completion: Flush Mount / Stick Up Key Number To Well: NM

ARCADIS Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID A-27

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny SSF

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4

Well Material X PVC
SS

Static Water Level (ft-btoc) 10.11 Total Depth (ft-btoc) 10.70 Water Column/ Gallons in Well

Initial PID Reading (ppm)

TOC Elevation 17.22 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1524 Volumes Purged Centrifugal Submersible Other

Sample Time: Label 1525 Replicate/ Code No. NA
Start 1525
End 1542

Sampled by RL

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1525	1	300	10.16	0.1	6.38	0.319	22.7	1.61	12.85	-30	clear	slight
1526	4	300	10.20	0.2	6.41	0.323	24.4	0.70	12.61	-63		
1531	7	300	10.18	0.3	6.42	0.323	23.6	0.77	12.66	-69		
1534	10	300	10.19	0.4	6.42	0.323	23.1	0.72	12.65	-72		
1537	13	300	10.19	0.5	6.42	0.323	22.9	0.66	12.67	-75		
1540	17	300										

Constituents Sampled	Container	Number	Preservative
GRO	20A	1	HCl
BTEX	20A	2	
Nitrate	20A	1	H ₂ SO ₄
Sulfate	20A	1	
Sulfide	20A	1	Zn Ac
Ferrous Iron	20A	2	
Methane	20A	2	

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: NE corner of 13th and 13th SW Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA



Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID A-28R

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly cloudy, SS

Measuring Pt. TOC Screen NM Casing 2 Well Material PVC SS

Static Water Level (ft-btoc) 7.59 Total Depth (ft-btoc) 14.25 Water Column/ Gallons in Well 1 Initial PID Reading (ppm)

TOC Elevation 14.93 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other Sample Method Peristaltic Pump

Pump On/Off 1553/1614 Volumes Purged Sampled by RH

Sample Time: Label 1624 Replicate/ Code No. NA Start 1608 End 1614

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:			Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					~.5 ft	0.1	3%				10%	3%
1555	2	300	7.63	0.1	6.57	0.634	2.8	0.62	13.97	-76	clear	gas
1558	5	300	7.67	0.3	6.57	0.635	3.4	0.63	13.99	-82	↓	↓
1601	8	300	7.68	0.4	6.57	0.633	3.3	0.57	13.99	-92	↓	↓
1604	11	300	7.68	0.6	6.56	0.630	3.3	0.58	13.97	-94	↓	↓
1607	14	300	7.68	0.7	6.56	0.632	3.7	0.58	13.56	-95	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VDA	1	HCl
BTEX	VDA	2	"
Total Lead	Poly	1	HNO3
Nitrate	Poly	1	H2SO4
Sulfate	Poly	1	
Sulfide	Glass	1	
Ferrous Iron	VDA	2	
Methane	VDA	2	

Well Casing Volumes					
Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: NW corner of 13 & 2nd Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

Project No. WA000804.2014.00003 Well ID 11

Date 4/21/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Sunny 60°

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4

Well Material X PVC
SS

Static Water Level (ft-btoc) 3.53 Total Depth (ft-btoc) 10.84 Water Column/ Gallons in Well 4.04

Initial PID Reading (ppm) 0.20

TOC Elevation NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1526 Volumes Purged 4

Centrifugal
Submersible
Other

Sample Time: Label 1600 Replicate/
Start 1555 Code No.
End 1605 1415

Sampled by SLW

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1530	0	200	3.65		4.90	1.27	12.1	7.60	14.67	100	clear	none
1535	5	150	3.68		4.60	1.27	10.4	7.43	14.56	126	clear	none
1540	10	130	3.66		4.56	1.28	14.4	7.34	14.55	140	clear	none
1545	15	130	3.66		4.54	1.25	11.8	7.20	14.56	157	clear	none
1555	25	130	3.66		4.53	1.20	8.0	7.09	14.81	164	clear	none
1600	30	130	3.65		4.51	1.14	3.0	7.13	14.69	174	clear	none
1605	35	130	3.65		4.56	1.15	0.1	7.11	14.69	174	clear	none

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID 12 Date 1/28/14 Page 1 of 1

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather partly sunny, 60°F

Measuring Pt. TOC Screen NM Casing 4 Well Material X PVC
 Description TOC Setting (ft-bmp) NM Diameter (in.) 4 SS

Static Water Level (ft-btoc) 1.09 Total Depth (ft-btoc) 14.70 Water Column/ Gallons in Well 13.61 Initial PID Reading (ppm) 29.4

TOC Elevation 14.24 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 1430/1455 Volumes Purged < 1 Sampled by RH

Sample Time: Label 1500 Replicate/ Code No. NA
 Start 1449
 End 1455

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:		Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					~5 ft	0.1				Color	Odor
1433	3	150	1.25	3.1	6.25	3%	9.00	14.67	1	clear	yes
1436	6	250	1.31	0.2	6.23	10%	1.82	14.62	-5		
1439	9	250	1.39	0.3	6.23	3%	1.55	14.34	-9		
1442	12	250	1.50	0.4	6.23	3%	1.06	13.96	-12		
1445	15	250	1.58	0.5	6.23	3%	1.00	13.93	-13		
1448	18	250	1.67	0.7	6.24	3%	0.90	13.63	-15		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	HCl
BTEX	VOA	2	HCl
Nitrate	Poly	1	H2SO4
Sulfate	Poly	1	-
Sulfide	Glass	1	Zn Ac

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: NW side T-32 Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID MW-07R

Date 4/23/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Rain 50

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2

Well Material PVC SS

Static Water Level (ft-btoc) 5.48 Total Depth (ft-btoc) 12.74 Water Column/ Gallons in Well _____

Initial PID Reading (ppm) 0.0

TOC Elevatio: 13.92 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other _____

Sample Method Peristaltic Pump

Pump On/Off 1636 Volumes Purged _____

Sample Time: Label 1700 Replicate/ Code No. _____

Sampled by _____

Stabilized Range: -5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1640	0	150	5.50		6.44	0.064	0.0	5.44	13.91	-51	clear	none
1645	5	150	5.51		6.31	0.055	0.0	3.78	13.30	1	clear	none
1650	10	150	5.50		6.30	0.051	0.0	1.80	13.15	24	clear	none
1655	15	150	5.56		6.41	0.049	0.0	1.79	13.13	34	clear	none
1700	20	150	5.50		6.57	0.044	0.0	1.75	13.12	38	clear	none

Constituents Sampled	Container	Number	Preservative
GRO			
DRO			
HO			
BTEX			
Total Lead			
Sulfide			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.663	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-1 Date 4/23/14 Page of

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather

Measuring Pt. Screen Casing Well Material X PVC
 Description TOC Setting (ft-bmp) NM Diameter (in.) 2 SS

Static Water Level (ft-btoc) 5.01 Total Depth (ft-btoc) 13.10 Water Column/ Gallons in Well 8.07 / 5.3 Initial PID Reading (ppm) 0.0

TOC Elevation 13.21 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 1428 Volumes Purged < 1 Sampled by RH

Sample Time: Label 1450 Replicate/ Code No. NA
 Start End

Stabilized Range: ~5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1430	2	325	5.01	0.3	6.13	0.244	265	3.32	12.39	39	clear w/ mix	no
1433	3	325	5.05	0.5	6.13	0.245	13.0	3.17	12.10	44		
1436	6	325	5.05	0.7	6.14	0.247	10.0	2.84	11.96	50		
1439	11	325	5.07	1.0	6.16	0.258	8.5	2.56	10.87	47		
1442	14	325	5.05	1.2	6.19	0.266	5.7	2.26	11.83	41		
1445	17	325	5.05	1.4	6.22	0.276	5.4	2.15	11.85	34		
1446	20	325	5.05	1.6	6.24	0.285	5.6	2.05	11.90	29		
1451	23	325	5.05	1.8	6.26	0.294	5.9	1.93	11.81	21		
1454	26	325	5.05	2.0	6.27	0.301	5.3	1.82	11.76	15		
1457	28	325	5.05	2.2	6.28	0.305	5.5	1.80	11.76	15		

Constituents Sampled	Container	Number	Preservative
GRO	20A	1	HCl
DRO	↓	1	↓
HO	↓	1	↓
BTEX	↓	3	↓
Total Lead	Poly	1	HNO ₃

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: NE corner of E 4000 Well Locked at Arrival: Yes / NO

Condition of Well: good, but below surrounding grade Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID MW-2

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Partly, 50°F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4 Well Material PVC SS

Static Water Level (ft-bloc) 6.21 Total Depth (ft-bloc) 12.55 Water Column/Gallons in Well 6.34 / 4.1 Initial PID Reading (ppm) 6.0

TOC Elevation: 15.22 Pump Intake (ft-bloc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump

Pump On/Off 1405 / 1430 Volumes Purged 41 Centrifugal Submersible Other

Sample Time: Label 1432 Replicate/Code No. NA Sampled by RH

Time	Minutes Elapsed	Rate (gpm)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mv)	Appearance	
											Color	Odor
1407	2	300	6.23	0.2	6.59	0.026	61.5	4.56	13.14	29	clear	no
1410	5	300	6.23	0.3	6.51	0.028	51.1	3.98	12.39	67		
1413	8	300	6.23	0.5	6.53	0.030	42.5	3.92	12.43	62		
1416	11	300	6.23	0.7	6.54	0.031	47.0	3.74	11.26	85		
1419	14	300	6.23	0.9	6.52	0.032	57.4	3.67	11.04	102		
1422	17	300	6.23	0.9	6.51	0.031	31.7	3.48	11.06	113		
1425	20	300	6.23	1.0	6.49	0.032	25.6	3.32	11.57	117		
1428	23	300	6.23	1.2	6.48	0.033	24.0	3.07	11.48	124		
1431	26	300	6.23	1.3	6.46	0.033	23.5	3.07	11.15	124		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	401
DRO	VOA	1	
HO	VOA	1	
BTEX	VOA	2	
Total Lead	Pig	1	4002
Sulfide	ST-15	1	20 hr

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: NE corner of C Park, along 13th Ave Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: AAA



Groundwater Sampling Form

Page ___ of ___

Project No. WA000804.2014.00003 Well ID MW-3

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny, 50° F

Measuring Pt. Screen Casing Well Material X PVC
Description TOC Setting (ft-bmp) NM Diameter (in.) 4 SS

Static Water Level (ft-btoc) 2.06 Total Depth (ft-btoc) 13.39 Water Column/ Gallons in Well 11.33 / 7.3

Initial PID Reading (ppm) 0.0

TOC Elevation 11.39 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1721 Volumes Purged <1

Centrifugal Submersible Other

Sample Time: Label 1745 Replicate/ Start End

Code No. NA

Sampled by RH

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMgco), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows 1723-1735.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows: GRO, DRO, HO, BTEX, Total Lead.

Well Casing Volumes table with columns: Gallons/Foot, 1", 1.25", 1.5", 2", 2.5", 3", 3.5", 4", 6".

Well Information: Well Location: NE of NW-35, Well Locked at Arrival: Yes / NO, Condition of Well: good, Well Locked at Departure: Yes / NO, Well Completion: Flush Mount / Stick Up, Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003

Well ID MW-4

Page 1 of 1

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather cloudy 50F

Measuring Pt. Description TOC

Screen Setting (ft-bmp) NM

Casing Diameter (in.) 4

Well Material PVC
 SS

Static Water Level (ft-btbc) 571

Total Depth (ft-btbc) 1446

Water Column/ Gallons in Well

Initial PID Reading (ppm) 20.1 ppm

TOC Elevation 14.69

Pump Intake (ft-btbc) Mid-Screen

Purge Method:

Sample Method Peristaltic Pump

Pump On/Off 1400

Volumes Purged

Low-flow
 Centrifugal
 Submersible
 Other

Sample Time: Label 1400
Start 1405
End 1425

Replicate/ Code No.

Sampled by SW

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1400	0	250	5.85		7.11	0.474	88.0	2.41	17.27	1	debris	slight
1405	5	130	6.02		6.64	0.461	35.8	1.27	17.31	-31	clear	slight
1410	10	150	6.11		6.72	0.458	20.5	0.93	17.33	-39	clear	slight
1415	15	150	6.14		6.64	0.450	11.1	0.51	17.21	-49	clear	slight
1417	17	150	6.14		6.61	0.455	11.4	0.50	17.18	-51	clear	slight
1420	20	150	6.15		6.60	0.455	10.9	0.49	17.19	-52	clear	slight

Constituents Sampled	Container	Number	Preservative
GRO			
DRO			
HO			
BTEX			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

ARCADIS Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID MW-5

Date 4/21/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather overcast 60°F

Measuring Pt. TOC Screen NM Casing 4 Well Material X PVC
 Description TOC Setting (ft-bmp) NM Diameter (in.) 4 SS

Static Water Level (ft-btoc) 1.90 Total Depth (ft-btoc) 13.14 Water Column/ Gallons in Well 11.24 / 1.7 Initial PID Reading (ppm) N.C.

TOC Elevation 11.13 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 1138 / 1157 Volumes Purged

Sample Time: Label 1155 Replicate/ Code No. NA Sampled by RH
 Start 1153
 End 1157

Stabilized Range: ~5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMncc) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1140	2	320	2.02	0.3	5.20	0.317	6.5	5.23	14.03	290	clear	no
1143	5	250	1.98	0.4	5.76	0.283	7.8	3.24	13.31	266	↓	↓
1146	8	250	1.96	0.5	6.15	0.273	3.5	3.09	13.01	276	↓	↓
1149	11	250	1.98	0.6	6.22	0.268	3.8	3.09	12.83	267	↓	↓
1152	14	250	1.98	0.6	6.23	0.265	1.2	3.00	12.78	258	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VQA	2	HCl
DRO	↓	1	↓
HO	↓	1	↓
BTEX	↓	2	↓
Total Lead	Polg	1	HNO3

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.683	

Well Information

Well Location: S side of D Tank Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-6

Page of

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny, 60°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4

Well Material PVC
 SS

Static Water Level (ft-bloc) 6.71 Total Depth (ft-bloc) 12.75 Water Column/Gallons in Well 6.04 / 3.9

Initial PID Reading (ppm) 0.0

TOC Elevator 15.17 Pump Intake (ft-bloc) Mid-Screen Purge Method: Low-flow
 Centrifugal
 Submersible
 Other

Sample Method Peristaltic Pump

Pump On/Off 1500/1517 Volumes Purged 4.1

Sampled by RU

Sample Time: Label 1510 Replicate/Code No. NA
Start 1511
End 1517

Time	Minutes Elapsed	Rate (gpm)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMnO ₄) (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1508	2	300	6.25	0.1	6.36	0.372	0.8	5.20	12.70	157	clear	no
1509	5	300	6.27	0.2	6.35	0.269	3.0	2.71	11.97	153		
1509	8	300	6.27	0.3	6.34	0.269	3.1	2.54	11.93	147		
1507	11	300	6.27	0.4	6.34	0.270	2.4	2.42	11.91	147		
1510	14	300	6.27	0.6	6.35	0.271	2.6	2.34	11.93	146		

Constituents Sampled	Container	Number	Preservative
GRO	VDA	1	HCl
BTEX	VDA	2	
Total Lead	Poly	1	HNO ₃
Nitrate	Poly	1	H ₂ SO ₄
Sulfate	Poly	1	
Sulfide	Gas	1	Zn Ac.
Ferrous Iron	VDA	2	
Methane	VDA	2	

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: SU & D road Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Flash Mount / Stick Up Key Number To Well: NA



Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID MW-7

Date 4/21/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 65°F

Measuring Pt. TOC Screen NM Casing 4

Well Material X PVC
SS

Static Water Level (ft-btoc) 2.11 Total Depth (ft-btoc) 12.82 Water Column/ Gallons in Well 10.71 / 1.6

Initial PID Reading (ppm) 48.6

TOC Elevator 10.62 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1513/1539 Volumes Purged <1 Other

Sample Time: Label 1540 Replicate/ Code No. BD-1

Sampled by RH

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:		Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					~5 ft	0.1				Color	Odor
1516	3	400	2.15	0.3	6.91	1.72	1.41	16.61	-85	clear	yes
1517	6	400	2.41	0.6	6.91	1.71	1.06	16.63	-90		
1522	9	400	2.47	0.9	6.90	1.70	0.99	16.65	-101		
1525	12	400	2.59	1.2	6.87	1.71	0.92	16.67	-106		
1526	15	270	2.64	1.3	6.85	1.72	0.93	16.74	-111		
1531	18	270	2.73	1.4	6.78	1.77	0.90	16.81	-112	✓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VUA	1	HCl
BTEX	VUA	2	"
Total Lead	Poly	1	HNO ₃
Dissolved Lead	Poly	1	-
Nitrate	Poly	1	H ₂ SO ₄
Sulfate	Poly	1	-
Sulfide	Glass	1	Zn Ac
Ferrous Iron	VUA	2	
Methane	VUA	2	HCl
Blind Duplicate	VUA	3	HCl

Well Casing Volumes					
Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: W side of P yard Well Locked at Arrival: Yes / NO

Condition of Well: good Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-8 Date 4/24/14 Page of

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 50°F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4 Well Material X PVC
SS

Static Water Level (ft-btoc) 2.48 Total Depth (ft-btoc) 18.13 Water Column/ Gallons in Well 15.65 Initial PID Reading (ppm) 0.0

TOC Elevation 10.63 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 1003/1025 Volumes Purged Sampled by RH

Sample Time: Label 1025 Replicate/ Code No. NA
Start 1017
End 1025

Stabilized Range: ~.5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1009	1	250	2.66	0.1	6.21	0.061	48.4	5.11	13.32	115	slight yellow	no
1007	4	250	2.95	0.3	6.20	0.060	46.3	3.67	13.26	120	↓	↓
1010	7	200	3.09	0.4	6.23	0.060	45.6	3.49	13.29	128	↓	↓
1013	10	200	3.17	0.5	6.24	0.060	46.3	3.39	13.29	132	↓	↓
1016	13	200	3.20	0.6	6.24	0.060	45.5	3.34	13.31	126	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	UBA	1	HCl
DRO	↓	1	↓
HO	↓	1	↓
BTEX	↓	3	↓
Total Lead	Poly	1	HNO ₃

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	3.5" = 0.50	

Well Information

Well Location: SSE of T-20 Well Locked at Arrival: Yes / No

Condition of Well: good - casing bent / separated Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well:



Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID MW-9

Date 4-21-14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Partly Cloudy

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4

Well Material X PVC SS

Static Water Level (ft-btoc) 2.16 Total Depth (ft-btoc) 11.20 Water Column/ Gallons in Well 5.9

Initial PID Reading (ppm) 1.6

TOC Elevation 9.75 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1428 Volumes Purged

Sample Method Peristaltic Pump

Sample Time: Label 1300 Replicate/ Start 1455 Code No. End

Sampled by SLD

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMhos/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows 1435-1450.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows: GRO, BTEX, Total Lead, Nitrate, Sulfate, Sulfide, Ferrous Iron, Methane.

Well Casing Volumes table with columns: Gallons/foot, 1", 1.5", 2", 2.5", 3", 3.5", 4", 6".

Well Information section with fields: Well Location, Condition of Well, Well Completion, Well Locked at Arrival/Departure, Key Number To Well.



Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003

Well ID MW-12

Date 4/23/17

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather light rain / 50°F

Measuring Pt. Screen Well Material X PVC
Description TOC Setting (ft-bmp) NM Diameter (in.) 2 SS

Static Water Level (ft-btoc) 6.79 Total Depth (ft-btoc) Water Column/ Gallons in Well Initial PID Reading (ppm) 2.0

TOC Elevator 15.47 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 16:04/16:35 Volumes Purged Sampled by RK

Sample Time: Label 1635 Replicate/ Code No. NA
Start 1627
End 1635

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	0.1		10%		3%		Appearance	
					pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Color	Odor
16:06	2	250	6.84	0.1	7.25	0.489	1.4	5.07	14.13	-62	clear	slight
16:07	5	250	6.83	0.2	7.31	0.439	2.2	1.34	13.08	-88		
16:12	6	250	6.85	0.3	7.30	0.495	4.0	1.07	12.85	-74		
16:16	12	250	6.84	0.5	7.28	0.454	6.6	0.46	12.63	-98		
16:19	15	250	6.84	0.6	7.27	0.457	7.8	0.75	12.58	-101		
16:22	18	250	6.84	0.8	7.26	0.464	9.5	0.71	12.50	-104		
16:25	21	250	6.84	1.0	7.27	0.464	10.0	0.38	12.71	-106		
16:28	24	250	6.84	1.1	7.27	0.467	9.0	0.60	12.38	-108		

Constituents Sampled	Container	Number	Preservative
GRO	V28	1	HCl
DRO	V28	1	
HO	V28	1	
BTEX	V28	3	
Total Lead	Poly	1	(10%)
Sulfide	Class	1	Zn Ac

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.10	3" = 0.37	4" = 0.653	

Well Information

Well Location: E side of 14th Ave NE * E gate to D Yard Well Locked at Arrival: Yes / NO

Condition of Well: Good Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID MW-14

Date 4/21/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Overcast, 55°F

Measuring Pt. Screen Casing Well Material X PVC
 Description TOC Setting (ft-bmp) NM Diameter (in.) 4 SS

Static Water Level (ft-btoc) 2.32 Total Depth (ft-btoc) 13.44 Water Column/ Gallons in Well 7.70 Initial PID Reading (ppm) 0.0

TOC Elevation 11.44 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 11:58 Volumes Purged

Sample Time: Label 1230 Replicate/ Code No.
 Start 1233
 End 1244

Sampled by SW

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:			Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					pH	Cond. (µMhos/cm) (mS/cm)	Turbidity (NTU)				Color	Odor
1214	0	130	2.43		5.84	0.168	1.9	2.80	14.07	142	clear	none
1221	7	130	2.43		5.82	0.172	2.4	1.70	13.22	136	clear	none
1224	3	130	2.42		5.82	0.172	4.5	1.53	13.09	132	clear	none
1227	5	130	2.42		5.75	0.173	0.6	1.44	12.77	128	clear	none
1235	5	130	2.43		6.01	0.175	1.3	1.24	12.46	123	clear	none
1238	3	130	2.43		5.85	0.175	1.2	1.23	12.44	121	clear	none
Sheen visible in well casing, not visible in purgewater												

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			
Ferrous Iron			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: As per Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well:

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-16 Date 11-23-14 Page 1 of 1

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Partly Sunny

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2 Well Material PVC SS

Static Water Level (ft-btoc) 6.12 Total Depth (ft-btoc) 13.44 Water Column/ Gallons in Well 110 - calculated Initial PID Reading (ppm) 2.0

TOC Elevation - Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other Sample Method Peristaltic Pump

Pump On/Off 15:31 Volumes Purged ~1 Sampled by KH

Sample Time: Label 15:30 Replicate/ Code No. - Start 15:25 End 15:35

Time	Minutes Elapsed	Rate (gpm)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
15:16	3	250	6.12	0	6.11	0.426	14.4	5.47	13.11	-22	clear	none
15:19	6		6.19	~1	5.92	0.423	9.4	4.15	12.71	-6		
15:22	9		6.14	~1	5.70	0.416	7.5	2.46	12.63	3		
15:25	12		6.15	~1	5.70	0.417	1.5	2.07	12.55	10		
15:28	15		6.15	~1	5.75	0.422	0.0	1.93	12.55	15		
15:31	18		6.16	~1	5.82	0.421	0.0	1.93	12.62	17		

Constituents Sampled	Container	Number	Preservative
GRO			
DRO			
HO			
BTEX			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: 13th Ave Row Well Locked at Arrival: Yes / No

Condition of Well: Good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: 114



Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-18 Date 4-22-14 Page 1 of 1

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Partly Sunny

Measuring Pt. Screen Casing Well Material X PVC Description TOC Setting (ft-bmp) NM Diameter (in.) 2 SS

Static Water Level (ft-btoc) 6.23 Total Depth (ft-btoc) 13.65 Water Column/ Gallons in Well 1/2 gal Initial PID Reading (ppm) 90

TOC Elevation 15.49 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other Peristaltic Sample Method Peristaltic Pump

Pump On/Off 14:45 / 15:05 Volumes Purged ~1 Sample Time: Label 15:00 Replicate/ Code No. Start 14:51 End 15:05 Sampled by KH

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMhos/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Includes handwritten data for 5 time points.

Table with columns: Constituents Sampled, Container, Number, Preservative. Includes rows for GRO and BTEX.

Well Casing Volumes table with columns: Gallons/Foot, 1" = 0.04, 1.25" = 0.06, 1.5" = 0.09, 2" = 0.162, 2.5" = 0.26, 3" = 0.37, 3.5" = 0.50, 4" = 0.653, 6" = 1.47

Well Information: Well Location: 13th Ave SW, Well Locked at Arrival: Yes / No, Condition of Well: Good, Well Locked at Departure: Yes / No, Well Completion: Flush Mount / Stick Up, Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-19 Date 4/21/14 Page of

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Overcast 55°F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2 Well Material PVC SS
 Static Water Level (ft-btoc) 1.90 Total Depth (ft-btoc) 12.90 Water Column/ Gallons in Well 8.4 Initial PID Reading (ppm) 0.0
 TOC Elevation 11.39 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other
 Pump On/Off 1330 Volumes Purged Sample Method Peristaltic Pump
 Sample Time: Label 1350 Replicate/ Code No. Sampled by SW
 Start 1330
 End 1355

Stabilized Range:												
~.5 ft												
0.1												
3%												
10%												
3%												
Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1335	0	150	2.08		5.42	0.527	18.3	3.97	13.38	226	cloudy	none
1330	5	140	2.09		5.49	0.559	8.3	2.72	12.98	-7	clear	none
1335	10	160	2.01		5.47	0.575	2.2	1.90	12.75	-35	clear	none
1340	15	160	2.01		5.40	0.620	4.3	1.60	12.85	-47	clear	none
1345	20	160	1.99		5.40	0.624	6.3	1.55	12.74	-51	clear	none
1350	25	140	2.01		5.37	0.639	6.7	1.35	12.89	-55	clear	none

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			
Ferrous Iron			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: MW-19 Well Locked at Arrival: Yes / No
 Condition of Well: Good Well Locked at Departure: Yes / No
 Well Completion: Flush Mount / Stick Up Key Number To Well:



Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID MW-20

Date 4/22/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly cloudy

Measuring Pt. TOC Screen NM Casing 2

Well Material X PVC SS

Static Water Level (ft-btoc) 2.33 Total Depth (ft-btoc) 11.82 Water Column/ Gallons in Well

Initial PID Reading (ppm)

TOC Elevator 11.72 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off On Volumes Purged Centrifugal Submersible Other

Sample Time: Label 1710 Replicate/ Code No. NA

Sampled by RH

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	0.1 Cond. (µMho/cm) (µS/cm)	10% Turbidity (NTU)	3% Dissolved Oxygen (mg/L)	Temp. (°C)	3% Redox ORP (mV)	Appearance	
											Color	Odor
1046	2	400	2.40	0.3	6.57	0.356	5.29	7.14	12.46	-46	slight brown	yes
1049	5	400	2.45	0.7	6.56	0.352	5.59	3.76	11.57	-54	↓	↓
1052	8	400	2.47	1.0	7.03	0.349	4.4	2.22	11.36	-62	clear	↓
1055	11	400	2.47	1.3	6.73	0.349	0.0	1.48	11.30	-55	↓	↓
1058	14	400	2.47	1.7	7.02	0.349	0.0	1.25	11.26	-87	↓	↓
1101	17	400	2.47	2.0	6.71	0.349	0.0	1.15	11.26	-92	↓	↓
1104	20	400	2.47	2.3	6.76	0.349	0.0	1.12	11.17	-76	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	JWA	1	HCl
DRO	↓	1	↓
HO	↓	1	↓
BTEX	↓	3	↓

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: 2720 13th Ave SW Well Locked at Arrival: Yes / NO

Condition of Well: good Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Page of

Project No. WA000804.2014.00003 Well ID MW-21 Date 4/24/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather partly cloudy, 50°F

Measuring Pt. Screen Well Material X PVC
 Description TOC Setting (ft-bmp) NM Diameter (in.) 2 SS

Static Water Level (ft-btoc) 2.16 Total Depth (ft-btoc) 12.80 Water Column/ Gallons in Well 10.62 / 1.6 Initial PID Reading (ppm) 3.4

TOC Elevator 9.41 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 9:16 / 9:45 Volumes Purged 51 Sampled by RH
 Sample Time: Label 945 Replicate/ Code No. NA
 Start 9:36
 End 9:45

Stabilized Range: ~.5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
9:20	2	240	2.38	0.1	5.65	0.076	32.2	1.25	11.99	199	slight yellow	slight
9:23	5	240	2.43	0.2	5.52	0.053	31.4	1.57	12.98	183	slight yellow	slight
9:26	8	240	2.47	0.3	5.53	0.052	30.8	1.75	12.12	179	hazy	slight
9:29	11	240	2.49	0.4	5.54	0.050	30.7	1.55	12.20	173	slight yellow	slight
9:32	14	240	2.50	0.6	5.54	0.050	32.2	1.09	12.25	159	↓	↓
9:35	17	240	2.51	0.8	5.55	0.050	31.1	1.06	12.30	144	↓	↓
9:38	20	240	2.51	1.0	5.55	0.050	31.2	0.78	12.33	133	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VBA	1	HCl
DRO	VBA	1	↓
HO	VBA	1	↓
BTEX	VBA	3	↓
Nitrate	Poly	1	H ₂ SO ₄
Sulfate	Poly	1	-
Sulfide	Class	1	Zn Ac.
Ferrous Iron	VBA	2	-
Methane	VBA	2	HCl

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: SE corner of B yard Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Push Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-22 Date 4/22/14 Page of
 Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather partly cloudy, 61°F
 Measuring Pt. TOC Screen NM Casing 2 Well Material X PVC SS
 Description TOC Setting (ft-bmp) Diameter (in.) Initial PID
 Static Water Level (ft-btoc) 7.22 Total Depth (ft-btoc) 13.30 Water Column/ Gallons in Well Reading (ppm) 0.0
 TOC Elevation 16.32 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other
 Pump On/Off 1329/1400 Volumes Purged Sampled by RU
 Sample Time: Label 140 Replicate/ Code No. NA
 Start 1355
 End 1400

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm) (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1328	4					0.002	276	9.05	12.66	267	slight yellow	no
1339	10	300	7.22	0.3	6.02	0.165	66.7	1.69	12.71	159	↓	↓
1342	13	300	7.23	0.4	6.25	0.145	58.0	1.00	12.47	59	↓	↓
1345	16	300	7.23	0.5	6.29	0.139	46.8	0.80	12.26	29	↓	↓
1348	19	300	7.23	0.7	6.33	0.130	34.6	0.70	12.08	10	↓	↓
1351	22	300	7.23	0.6	6.55	0.128	31.8	0.70	12.10	7	↓	↓
1354	25	300	7.23	0.7	6.35	0.128	31.5	0.69	12.02	4	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	UDA	1	HCl
DRO	↓	1	↓
HO	↓	1	↓
BTEX	↓	2	↓

Well Casing Volumes
 Gallons/Foot 1" = 0.04 1.5" = 0.09 2.5" = 0.26 3.5" = 0.50 6" = 1.47
 1.25" = 0.06 2" = 0.162 3" = 0.37 4" = 0.653

Well Information
 Well Location: W of 0 road gate Well Locked at Arrival: Yes / No
 Condition of Well: good Well Locked at Departure: Yes / No
 Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-23

Page of

Date 4/23/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny, 50°F

Measuring Pt. TOC Screen NM Casing 4
 Description TOC Setting (ft-bmp) NM Diameter (in.) 4

Well Material X PVC
SS

Static Water Level (ft-btoc) 7.22 Total Depth (ft-btoc) 14.60
 Water Column/ Gallons in Well 7.38 / 4.6

Initial PID Reading (ppm) 336

TOC Elevation 14.15 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow
Centrifugal
Submersible
Other

Sample Method Peristaltic Pump

Pump On/Off 1003 / 1044 Volumes Purged < 1

Sample Time: Label 1030 Replicate/ Code No. NA
 Start 1036
 End 1044

Sampled by RH

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMnco) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1006	3	300	7.26	0.1	6.99	3.07	1.2	6.47	11.63	-54	slight yellow	yes
1009	6	300	7.26	0.2	7.05	3.14	0.0	2.07	11.65	-55		
1012	9	300	7.26	0.3	7.05	3.28	0.0	2.05	11.70	-55		
1015	12	300	7.26	0.5	7.03	3.90	0.0	0.91	11.71	-55		
1018	15	300	7.27	0.6	7.02	4.74	0.0	0.71	11.73	-54		
1021	18	300	7.27	0.7	7.02	6.57	0.0	0.61	11.73	-53		
1024	21	300	7.27	0.9	6.96	8.33	0.0	0.55	11.75	-54		
1027	24	300	7.27	1.1	6.94	9.67	0.0	0.54	11.76	-55		
1030	27	300	7.27	1.3	6.75	11.1	0.0	0.50	11.76	-57		
1033	30	300	7.27	1.5	6.74	11.6	0.0	0.49	11.76	-60		
1036	33	300	7.27	1.7	6.73	12.2	0.0	0.47	11.76	-62		

Constituents Sampled	Container	Number	Preservative
GRO	VDA	1 HCl	
BTEX		2 HCl	
Total Lead	Poly	1 HNO ₃	
Nitrate	Poly	1 H ₂ SO ₄	
Sulfate	Poly	1	
Sulfide	6015	1 Zn Ac	
Ferrous Iron	VDA	2	
Methane	VDA	2	HCl

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: S of MW-24 Well Locked at Arrival: Yes / NO

Condition of Well: g-l Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

Project No. WA000804.2014.00003 Well ID MW-24

Date 5/23/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny, S-F

Measuring Pt. Screen Well Material X PVC
 Description TOC Setting (ft-bmp) NM Diameter (in.) 4 SS

Static Water Level (ft-btoc) 7.21 Total Depth (ft-btoc) 14.70 Water Column/ Gallons in Well 7.49 / Initial PID Reading (ppm) 220

TOC Elevation 14.24 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 921/950 Volumes Purged 21 Sampled by RH
 Sample Time: Label 940 Replicate/ Code No. BD-2
 Start 944
 End 950

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
923	2	250	7.22	0.1	7.06	1.21	25.5	7.76	10.13	172	clear	strong
926	5	250	7.22	0.2	7.37	1.21	25.4	2.29	10.50	117		
929	8	250	7.22	0.3	7.30	1.22	23.8	1.49	10.68	56		
932	11	250	7.23	0.5	7.23	1.22	16.5	1.01	10.61	-3		
935	14	250	7.23	0.7	7.23	1.23	14.6	0.80	10.94	-22		
938	17	250	7.23	0.9	7.00	1.23	14.3	0.76	11.02	-32		
941	20	250	7.23	1.1	6.76	1.23	13.6	0.71	11.05	-40		
944	23	250	7.23	1.3	6.75	1.23	13.3	0.68	11.09	-47		

Constituents Sampled	Container	Number	Preservative
GRO	VDA	1	HCl
BTEX	VDA	2	"
Total Lead	Poly	1	HNO ₃
Nitrate	Poly	1	H ₂ SO ₄
Sulfate	Poly	1	-
Sulfide	glass	1	Zn Ac
Ferrous Iron	VDA	2	
Methane	VDA	2	
Blind Duplicate	VDA	3	HCl

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: South base line of 13th Ave SW, SW of intersection Well Locked at Arrival: Yes / NO

Condition of Well: good w/ header S-F Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID MW-25 Date 4/23/14 Page of

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather overcast, 50°F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4 Well Material X PVC
SS
 Static Water Level (ft-btoc) 7.05 Total Depth (ft-btoc) 14.80 Water Column/Gallons in Well 7.75 / 4 Initial PID Reading (ppm) 0.0
 TOC Elevation 13.05 Pump Intake (ft-btoc Mid-Screen) Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other
 Pump On/Off 1156/1226 Volumes Purged <1 Sampled by RH
 Sample Time: Label 1230 Replicate/Code No. NA
 Start 1222
 End 1226

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1200	2	350	7.07	6.2	6.06	6.33	9.7	3.66	13.58	13	slight yellow	no
1203	5	350	7.06	0.5	6.03	6.54	10.6	2.36	13.62	14	↓	↓
1206	6	350	7.08		6.30	10.1	10.0	1.07	13.64	4	↓	↓
1209	11	350	7.08		6.70	11.2	9.1	0.75	13.76	-12	↓	↓
1212	14	350	7.08		6.52	11.9	8.9	0.64	13.79	-11	↓	↓
1215	17	350	7.08		7.12	12.8	8.6	0.54	13.85	-31	↓	↓
1218	20	350	7.08		7.16	14.0	8.8	0.51	13.90	-36	↓	↓
1221	23	350	7.08		7.17	14.4	8.5	0.50	13.92	-37	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	vva	1	HCl
DRO	↓	1	↓
HO	↓	1	↓
BTEX	↓	3	↓
Total Lead	Poly	1	HNO ₃

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.83	

Well Information

Well Location: SE part of A yard Well Locked at Arrival: Yes / NO

Condition of Well: good Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA



Groundwater Sampling Form

Page ___ of ___

Project No. WA000804.2014.00003 Well ID SH-02R

Date 2/24/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather

Measuring Pt. Screen Casing Well Material X PVC
Description TOC Setting (ft-bmp) NM Diameter (in.) 2 SS

Static Water Level (ft-btoc) 4.74 Total Depth (ft-btoc) Water Column/ Gallons in Well Initial PID Reading (ppm) 0.4

TOC Elevation 13.40 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other Sample Method Peristaltic Pump

Pump On/Off 1519 / 1535 Volumes Purged Replicate/ Code No. NA Sampled by RH

Sample Time: Label 1535 Start 1534 End 1535

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMhos/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows include data for times 1521, 1525, 1526, 1531, 1534.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows include GRO, DRO, HO, BTEX, Total Lead, Sulfide.

Well Casing Volumes table with columns: Gallons/Foot, 1" = 0.04, 1.5" = 0.09, 2.5" = 0.26, 3.5" = 0.50, 6" = 1.47, 1.25" = 0.06, 2" = 0.13, 3" = 0.37, 4" = 0.653.

Well Information: Well Location: NE corner of E yard, outside well along NEA; Well Locked at Arrival: Yes / No; Condition of Well: good; Well Locked at Departure: Yes / No; Well Completion: Flush Mount / Stick Up; Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID TMW-1 Date 4/21/14 Page of

Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather Partly Sunny, 60°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2 Well Material PVC SS

Static Water Level (ft-btoc) 2.21 Total Depth (ft-btoc) 15.29 Water Column/ Gallons in Well 13.09 / 2.1 Initial PID Reading (ppm) 0.0

TOC Elevation NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other Sample Method Peristaltic Pump

Pump On/Off 1336/1406 Volumes Purged <1 Sampled by KH

Sample Time: Label 1400 Replicate/ Code No. NA
Start 1400
End 1406

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1336	2	200	2.43	0.1	6.72	1.03	200	6.29	16.90	-12	orange	no
1341	5	200	2.43	0.2	6.65	1.00	131	3.96	15.98	28		
1344	8	200	2.43	0.3	6.62	1.01	163	3.57	15.57	39		
1347	11	200	2.43	0.5	6.56	1.03	232	3.42	15.08	50		
1350	14	200	2.43	0.6	6.56	1.04	216	3.21	14.75	59		
1353	17	200	2.43	0.7	6.52	1.07	228	3.13	14.48	63		
1356	20	200	2.43	0.8	6.51	1.09	209	3.09	14.21	65		
1359	23	200	2.43	0.9	6.50	1.10	211	3.07	14.19	67		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	HCl
BTEX	VOA	2	HCl
Nitrate	Poly	1	H2SO4
Sulfate	Poly	1	-
Sulfide	Glass	1	Zn Ac

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: SW area of D yard Well Locked at Arrival: Yes / No

Condition of Well: good Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: NA



Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003

Well ID TMW-2

Date 7/21/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny, 60°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2

Well Material X PVC
SS

Static Water Level (ft-btoc) 2.50 Total Depth (ft-btoc) 15.63 Water Column/ Gallons in Well 13.13 / 2.1

Initial PID Reading (ppm) 0.4

TOC Elevatio NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow
Centrifugal
Submersible
Other

Sample Method Peristaltic Pump

Pump On/Off 1227/1301 Volumes Purged <1

Sample Time: Label 1245 Replicate/ Code No. NA
Start 1256
End 1301

Sampled by RH

Stabilized Range: ~.5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1229	2	3.50	2.56	0.3	6.76	3.59	124	3.46	16.99	-73	slightly	yes -
1232	5	1.50	2.56	0.4	6.77	3.61	104	2.15	16.96	-103	yellow	sour
1235	8	2.50	2.57	0.5	6.77	3.62	88.5	1.77	16.07	-122		
1238	11	2.50	2.57	0.6	6.80	3.59	58.7	1.60	15.82	-133		
1241	14	2.50	2.57	0.8	6.82	3.55	36.2	1.55	15.74	-139		
1244	17	2.50	2.57	0.9	6.84	3.53	27.6	1.51	15.66	-140	clear	
1247	20	2.50	2.57	1.0	6.86	3.52	24.9	1.51	15.73	-145		
1250	23	2.50	2.57	1.1	6.88	3.49	20.3	1.54	15.76	-146		
1253	26	2.50	2.57	1.3	6.88	3.47	19.8	1.63	15.86	-147		
1256	29	2.50	2.57	1.4	6.88	3.48	18.2	1.56	15.88	-148		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	HCl
BTEX	VOA	2	↓
Nitrate	Poly	1	H2SO4
Sulfate	Poly	1	-
Sulfide	Glass	1	ZnAc

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: S side of 13th Ave, NE of Fremont St. Well Locked at Arrival: Yes / No
Condition of Well: good Well Locked at Departure: Yes / No
Well Completion: Flush Mount / Stick Up Key Number To Well: NA

Project No. WA000804.2014.00003 Well ID TMW-3

Date 4/24/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather cloudy 50F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2

Well Material PVC SS

Static Water Level (ft-btoc) 2.33 Total Depth (ft-btoc) 15.71 Water Column/ Gallons in Well _____

Initial PID Reading (ppm) 12.7

TOC Elevation NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other _____

Sample Method Peristaltic Pump

Pump On/Off 0921 Volumes Purged _____

Sample Time: Label 0945 Replicate/ Code No. _____
Start 0950
End 0955

Sampled by _____

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:		Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance		
					~.5 ft	0.1				Color	Odor	
0923	0	200	2.34		7.16	3.61	97.6	6.17	11.48	182	cloudy	slight
0927	4	200	2.34		7.24	3.57	215	1.35	11.46	122	cloudy	slight
0930	7	200	2.34		7.32	3.60	216	1.60	11.44	73	cloudy	slight
0935	12	180	2.34		7.39	3.64	270	0.78	11.16	19	cloudy	slight
0940	17	180	2.34		7.42	3.92	312	0.73	10.97	-2	cloudy	slight
0945	22	150	2.34		7.42	3.96	343	0.68	10.92	-17	cloudy	slight
0948	25	150	2.34		7.42	3.97	344	0.68	10.93	-19	cloudy	slight
0950	27	150	2.34		7.42	3.98	339	0.66	10.90	-25	cloudy	slight

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: _____ Well Locked at Arrival: Yes / No

Condition of Well: _____ Well Locked at Departure: Yes / No

Well Completion: Flush Mount / Stick Up Key Number To Well: _____

Project No. WA000804.2014.00003 Well ID TMW-4 Date 4/24/14
 Project Name/Location 2720 13th Ave SW Seattle, WA 98134 Weather cloudy 50F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2 Well Material PVC SS
 Static Water Level (ft-btoc) 2.06 Total Depth (ft-btoc) 15.47 Water Column/ Gallons in Well _____ Initial PID Reading (ppm) 771 ppm
 TOC Elevation NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Centrifugal Submersible Other _____ Sample Method Peristaltic Pump
 Pump On/Off 1007 Volumes Purged _____ Sampled by SW
 Sample Time: Label 1040 Replicate/ Code No. _____
 Start 1030 End 1040

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1010	0	140	2.12		7.21	2.59	51.0	0.53	11.91	-5	clear	Y
1005	5	140	2.14		6.59	2.59	59.3	0.78	12.15	-11	clear	Y
1010	10	140	2.13		6.51	2.58	62.3	0.74	12.16	-12	clear	Y
1015	15	140	2.17		6.46	2.58	54.3	0.69	12.19	-13	clear	Y
1020	20	140	2.14		6.40	2.57	52.3	0.70	12.24	-14	clear	Y
1025	25	140	2.15		6.32	2.56	50.4	0.62	12.33	-17	clear	Y
1030	30	140	2.15		6.29	2.56	46.4	0.61	12.30	-18	clear	Y
1035	35	140	2.15		6.29	2.55	44.5	0.60	12.30	-18	clear	Y

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			

Well Casing Volumes					
Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information
 Well Location: Byond Well Locked at Arrival: Yes / No
 Condition of Well: Good Well Locked at Departure: Yes / No
 Well Completion: Flush Mount / Stick Up Key Number To Well: _____



Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID TMW-5

Date 4/24/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather Cloudy 50F

Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2

Well Material X PVC SS

Static Water Level (ft-btoc) 2.32 Total Depth (ft-btoc) 14.68 Water Column/Gallons in Well 12.36

Initial PID Reading (ppm) 9.2

TOC Elevation NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 107 Volumes Purged

Sampled by SW

Sample Time: Label 1145 Replicate/Code No. NA Start 1135 End 1145

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µM/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows 1110-1133.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows for GRO, BTEX, Nitrate, Sulfate, Sulfide.

Well Casing Volumes table with columns: Gallons/Foot, 1", 1.25", 1.5", 2", 2.5", 3", 3.5", 4", 6".

Well Information section with fields: Well Location, Condition of Well, Well Completion (Flush Mount / Stick Up), Well Locked at Arrival/Departure, Key Number To Well.

ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID TMW-6

Date 4/24/14

Project Name/Location 2720 13th Ave SW Seattle, WA 98134

Weather overcast, 51°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2

Well Material X PVC
SS

Static Water Level (ft-btoc) 1.62 Total Depth (ft-btoc) 15 Water Column/ Gallons in Well

Initial PID Reading (ppm) 49.5

TOC Elevation NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1050/1111 Volumes Purged <1

Sample Method Peristaltic Pump

Sample Time: Label 1112 Replicate/ Code No. NA
Start 1055
End 1111

Sampled by RH

Time	Minutes Elapsed	Rate (gpm)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1052	2	225	1.78	0.1	6.20	2.37	0.0	1.46	12.62	50	clear	yes
1055	3	225	1.78	0.3	6.27	2.57	0.0	0.76	11.51	-5	↓	↓
1058	6	225	1.78	0.4	6.29	2.59	0.0	0.81	11.34	-27	↓	↓
1101	11	225	1.78	0.5	6.31	2.59	0.0	0.72	11.29	-37	↓	↓
1104	14	225	1.78	0.7	6.32	2.60	0.0	0.70	11.23	-45	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	HCl
BTEX	VOA	2	↓
Nitrate	Poly	1	H2SO4
Sulfate	Poly	1	-
Sulfide	Glass	1	ZnAc

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: E of T33, W of T32, B 4nd Well Locked at Arrival: Yes / NO

Condition of Well: good Well Locked at Departure: Yes / NO

Well Completion: Flush Mount / Stick Up Key Number To Well: NA



Attachment C

Laboratory Reports and Chain-of-Custody Documentaton



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: 11				
Lab ID : ARC14042221-01A Nitrate (NO3) - N	1.1	0.25 mg/L	04/22/14 12:05	04/22/14 17:13
Date Sampled 04/21/14 16:00 Sulfate (SO4)	580	50 mg/L	04/22/14 12:05	04/22/14 17:13
Client ID: 12				
Lab ID : ARC14042221-02A Nitrate (NO3) - N	ND	0.25 mg/L	04/22/14 12:05	04/22/14 17:31
Date Sampled 04/21/14 15:00 Sulfate (SO4)	1,700	500 mg/L	04/22/14 12:05	04/23/14 20:36
Client ID: MW-7				
Lab ID : ARC14042221-04A Nitrate (NO3) - N	0.29	0.25 mg/L	04/22/14 12:05	04/22/14 17:50
Date Sampled 04/21/14 15:40 Sulfate (SO4)	1,200	500 mg/L	04/22/14 12:05	04/23/14 20:55
Client ID: MW-9				
Lab ID : ARC14042221-05A Nitrate (NO3) - N	ND	0.25 mg/L	04/22/14 12:05	04/22/14 18:08
Date Sampled 04/21/14 15:00 Sulfate (SO4)	300	50 mg/L	04/22/14 12:05	04/22/14 18:08
Client ID: MW-14				
Lab ID : ARC14042221-06A Nitrate (NO3) - N	ND	0.25 mg/L	04/22/14 12:05	04/22/14 18:27
Date Sampled 04/21/14 12:30 Sulfate (SO4)	8.8	0.50 mg/L	04/22/14 12:05	04/22/14 18:27
Client ID: MW-19				
Lab ID : ARC14042221-07A Nitrate (NO3) - N	ND	0.25 mg/L	04/22/14 12:05	04/22/14 19:41
Date Sampled 04/21/14 13:50 Sulfate (SO4)	190	50 mg/L	04/22/14 12:05	04/22/14 19:41
Client ID: TMW-1				
Lab ID : ARC14042221-08A Nitrate (NO3) - N	ND	0.25 mg/L	04/22/14 12:05	04/22/14 19:59
Date Sampled 04/21/14 14:00 Sulfate (SO4)	670	50 mg/L	04/22/14 12:05	04/22/14 19:59
Client ID: TMW-2				
Lab ID : ARC14042221-09A Nitrate (NO3) - N	ND	0.25 mg/L	04/22/14 12:05	04/22/14 20:18
Date Sampled 04/21/14 12:45 Sulfate (SO4)	2,600	500 mg/L	04/22/14 12:05	04/23/14 21:13

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
 Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
 Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/5/14

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Iron by Spectrophotometer SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-7 Lab ID : ARC14042221-04A Iron, Ferrous (+2) Date Sampled 04/21/14 15:40	15	0.50 mg/L	04/24/14	04/24/14
Client ID: MW-9 Lab ID : ARC14042221-05A Iron, Ferrous (+2) Date Sampled 04/21/14 15:00	0.45	0.050 mg/L	04/24/14	04/24/14
Client ID: MW-14 Lab ID : ARC14042221-06A Iron, Ferrous (+2) Date Sampled 04/21/14 12:30	ND	0.050 mg/L	04/24/14	04/24/14
Client ID: MW-19 Lab ID : ARC14042221-07A Iron, Ferrous (+2) Date Sampled 04/21/14 13:50	30	1.0 mg/L	04/24/14	04/24/14

Ferrous iron samples were color developed promptly after laboratory login.

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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✓
5/5/14
Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-5 Lab ID : ARC14042221-03A Lead (Pb) Date Sampled 04/21/14 11:55	ND	0.0050 mg/L	04/28/14	04/29/14
Client ID: MW-7 Lab ID : ARC14042221-04A Lead (Pb) Date Sampled 04/21/14 15:40	ND	0.0050 mg/L	04/28/14	04/29/14
Client ID: MW-9 Lab ID : ARC14042221-05A Lead (Pb) Date Sampled 04/21/14 15:00	ND	0.0050 mg/L	04/28/14	04/29/14

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
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5/5/14
Report Date



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ANALYTICAL REPORT

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1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Dissolved Metals by ICPMS EPA Method 200.8

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-7 Lab ID : ARC14042221-04A Lead (Pb), Dissolved Date Sampled 04/21/14 15:40	ND	0.0050 mg/L	04/22/14	04/23/14

ND = Not Detected



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W
5/5/14
Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Dissolved Gases Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-7 Lab ID: ARC14042221-04A Methane Date Sampled 04/21/14 15:40	7.9	0.010 mg/L	04/23/14	04/24/14
Client ID: MW-9 Lab ID: ARC14042221-05A Methane Date Sampled 04/21/14 15:00	24	0.10 mg/L	04/23/14	04/25/14
Client ID: MW-14 Lab ID: ARC14042221-06A Methane Date Sampled 04/21/14 12:30	0.23	0.010 mg/L	04/23/14	04/24/14
Client ID: MW-19 Lab ID: ARC14042221-07A Methane Date Sampled 04/21/14 13:50	28	0.10 mg/L	04/23/14	04/25/14



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✓
5/5/14
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Sulfide SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: 11 Lab ID : ARC14042221-01A Sulfide Date Sampled 04/21/14 16:00	ND	0.10 mg/L	04/23/14	04/23/14
Client ID: 12 Lab ID : ARC14042221-02A Sulfide Date Sampled 04/21/14 15:00	0.22	0.10 mg/L	04/23/14	04/23/14
Client ID: MW-7 Lab ID : ARC14042221-04A Sulfide Date Sampled 04/21/14 15:40	0.18	0.10 mg/L	04/23/14	04/23/14
Client ID: MW-9 Lab ID : ARC14042221-05A Sulfide Date Sampled 04/21/14 15:00	ND	0.10 mg/L	04/23/14	04/23/14
Client ID: MW-14 Lab ID : ARC14042221-06A Sulfide Date Sampled 04/21/14 12:30	ND	0.10 mg/L	04/23/14	04/23/14
Client ID: MW-19 Lab ID : ARC14042221-07A Sulfide Date Sampled 04/21/14 13:50	0.23	0.10 mg/L	04/23/14	04/23/14
Client ID: TMW-1 Lab ID : ARC14042221-08A Sulfide Date Sampled 04/21/14 14:00	ND	0.10 mg/L	04/23/14	04/23/14
Client ID: TMW-2 Lab ID : ARC14042221-09A Sulfide Date Sampled 04/21/14 12:45	ND	0.10 mg/L	04/23/14	04/23/14

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
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 Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.



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5/5/14

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : 11					
Lab ID : ARC14042221-01A	TPH-P (GRO)	ND	0.25 mg/L	04/23/14	04/23/14
Date Sampled 04/21/14 16:00	Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	85	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/23/14	04/23/14
Client ID : 12					
Lab ID : ARC14042221-02A	TPH-P (GRO)	2.6	0.30 mg/L	04/23/14	04/23/14
Date Sampled 04/21/14 15:00	Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	106	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	82	(70-130) %REC	04/23/14	04/23/14
Client ID : MW-5					
Lab ID : ARC14042221-03A	TPH-E (DRO)	ND	0.25 mg/L	04/22/14	04/22/14
Date Sampled 04/21/14 11:55	TPH-E (ORO)	ND	0.50 mg/L	04/22/14	04/22/14
	Surr: Nonane	89	(53-145) %REC	04/22/14	04/22/14
	TPH-P (GRO)	ND	0.25 mg/L	04/23/14	04/23/14
	Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	83	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/23/14	04/23/14
Client ID : MW-7					
Lab ID : ARC14042221-04A	TPH-P (GRO)	1.9	0.30 mg/L	04/23/14	04/23/14
Date Sampled 04/21/14 15:40	Surr: 1,2-Dichloroethane-d4	85	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	107	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	83	(70-130) %REC	04/23/14	04/23/14
Client ID : MW-9					
Lab ID : ARC14042221-05A	TPH-P (GRO)	ND	0.25 mg/L	04/23/14	04/23/14
Date Sampled 04/21/14 15:00	Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	83	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	82	(70-130) %REC	04/23/14	04/23/14
Client ID : MW-14					
Lab ID : ARC14042221-06A	TPH-P (GRO)	ND	0.25 mg/L	04/23/14	04/23/14
Date Sampled 04/21/14 12:30	Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	83	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	84	(70-130) %REC	04/23/14	04/23/14
Client ID : MW-19					
Lab ID : ARC14042221-07A	TPH-P (GRO)	2.1	0.25 mg/L	04/23/14	04/23/14
Date Sampled 04/21/14 13:50	Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	104	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	83	(70-130) %REC	04/23/14	04/23/14
Client ID : TMW-1					
Lab ID : ARC14042221-08A	TPH-P (GRO)	ND	0.25 mg/L	04/23/14	04/23/14
Date Sampled 04/21/14 14:00	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	04/23/14	04/23/14
	Surr: Toluene-d8	86	(70-130) %REC	04/23/14	04/23/14
	Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/23/14	04/23/14



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Client ID :	TMW-1					
Lab ID :	ARC14042221-08A	TPH-P (GRO)	ND	0.25 mg/L	04/23/14	04/23/14
Date Sampled	04/21/14 14:00	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	86	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/23/14	04/23/14
Client ID :	TMW-2					
Lab ID :	ARC14042221-09A	TPH-P (GRO)	ND	0.25 mg/L	04/23/14	04/23/14
Date Sampled	04/21/14 12:45	Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	88	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	78	(70-130) %REC	04/23/14	04/23/14
Client ID :	BD-1					
Lab ID :	ARC14042221-10A	TPH-P (GRO)	2.4	0.30 mg/L	04/23/14	04/23/14
Date Sampled	04/21/14 00:00	Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	107	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	81	(70-130) %REC	04/23/14	04/23/14

Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
Oil Range Organics (ORO) C22-C40+
ND = Not Detected



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5/5/14
Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/22/14

Job: WA000804.2014/KMLT-Harbor Island

Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	11					
Lab ID :	ARC14042221-01A	Benzene	ND	0.50 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 16:00	Toluene	ND	0.50 µg/L	04/23/14	04/23/14
		Ethylbenzene	ND	0.50 µg/L	04/23/14	04/23/14
		Xylenes, Total	ND	0.50 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	85	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/23/14	04/23/14
Client ID :	12					
Lab ID :	ARC14042221-02A	Benzene	15	1.5 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 15:00	Toluene	14	1.5 µg/L	04/23/14	04/23/14
		Ethylbenzene	88	1.5 µg/L	04/23/14	04/23/14
		Xylenes, Total	150	1.5 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	106	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	82	(70-130) %REC	04/23/14	04/23/14
Client ID :	MW-5					
Lab ID :	ARC14042221-03A	Benzene	ND	0.50 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 11:55	Toluene	ND	0.50 µg/L	04/23/14	04/23/14
		Ethylbenzene	ND	0.50 µg/L	04/23/14	04/23/14
		Xylenes, Total	ND	0.50 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	83	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/23/14	04/23/14
Client ID :	MW-7					
Lab ID :	ARC14042221-04A	Benzene	13	1.5 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 15:40	Toluene	9.3	1.5 µg/L	04/23/14	04/23/14
		Ethylbenzene	110	1.5 µg/L	04/23/14	04/23/14
		Xylenes, Total	200	1.5 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	85	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	107	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	83	(70-130) %REC	04/23/14	04/23/14
Client ID :	MW-9					
Lab ID :	ARC14042221-05A	Benzene	17	0.50 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 15:00	Toluene	ND	0.50 µg/L	04/23/14	04/23/14
		Ethylbenzene	ND	0.50 µg/L	04/23/14	04/23/14
		Xylenes, Total	ND	0.50 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	98	(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	83	(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	82	(70-130) %REC	04/23/14	04/23/14



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Client ID : **MW-14**

Lab ID :	ARC14042221-06A	Benzene	ND		0.50 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 12:30	Toluene	ND		0.50 µg/L	04/23/14	04/23/14
		Ethylbenzene	ND		0.50 µg/L	04/23/14	04/23/14
		Xylenes, Total	ND		0.50 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	99		(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	83		(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	84		(70-130) %REC	04/23/14	04/23/14

Client ID : **MW-19**

Lab ID :	ARC14042221-07A	Benzene	6.6		1.0 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 13:50	Toluene	3.9		1.0 µg/L	04/23/14	04/23/14
		Ethylbenzene	160		1.0 µg/L	04/23/14	04/23/14
		Xylenes, Total	6.4		1.0 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	90		(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	104		(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	83		(70-130) %REC	04/23/14	04/23/14

Client ID : **TMW-1**

Lab ID :	ARC14042221-08A	Benzene	ND		0.50 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 14:00	Toluene	ND		0.50 µg/L	04/23/14	04/23/14
		Ethylbenzene	ND		0.50 µg/L	04/23/14	04/23/14
		Xylenes, Total	ND		0.50 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	96		(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	86		(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	86		(70-130) %REC	04/23/14	04/23/14

Client ID : **TMW-2**

Lab ID :	ARC14042221-09A	Benzene	ND	V	1.0 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 12:45	Toluene	ND	V	1.0 µg/L	04/23/14	04/23/14
		Ethylbenzene	ND	V	1.0 µg/L	04/23/14	04/23/14
		Xylenes, Total	ND	V	1.0 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	93		(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	88		(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	78		(70-130) %REC	04/23/14	04/23/14

Client ID : **BD-1**

Lab ID :	ARC14042221-10A	Benzene	15		1.5 µg/L	04/23/14	04/23/14
Date Sampled	04/21/14 00:00	Toluene	12		1.5 µg/L	04/23/14	04/23/14
		Ethylbenzene	130		1.5 µg/L	04/23/14	04/23/14
		Xylenes, Total	250		1.5 µg/L	04/23/14	04/23/14
		Surr: 1,2-Dichloroethane-d4	87		(70-130) %REC	04/23/14	04/23/14
		Surr: Toluene-d8	107		(70-130) %REC	04/23/14	04/23/14
		Surr: 4-Bromofluorobenzene	81		(70-130) %REC	04/23/14	04/23/14

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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5/5/14

Report Date



Alpha Analytical, Inc.

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VOC Sample Preservation Report

Work Order: ARC14042221

Job: WA000804.2014/KMLT-Harbor Island

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14042221-01A	11	Aqueous	2
14042221-02A	12	Aqueous	2
14042221-03A	MW-5	Aqueous	2
14042221-04A	MW-7	Aqueous	2
14042221-05A	MW-9	Aqueous	2
14042221-06A	MW-14	Aqueous	2
14042221-07A	MW-19	Aqueous	2
14042221-08A	TMW-1	Aqueous	2
14042221-09A	TMW-2	Aqueous	2
14042221-10A	BD-1	Aqueous	2

5/5/14

Report Date



Alpha Analytical, Inc.

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QC Summary Report

Date:
28-Apr-14

Work Order:
14042221

Method Blank

Method Blank		Type	MBLK		Test Code: EPA Method 300.0						
File ID: 29				Batch ID: 32784		Analysis Date: 04/22/2014 14:08					
Sample ID:	MB-32784	Units :	mg/L	Run ID: IC_1_140422A		Prep Date: 04/22/2014 12:05					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrate (NO3) - N	ND	0.25									
Sulfate (SO4)	ND	0.5									

Laboratory Fortified Blank

Laboratory Fortified Blank		Type	LFB		Test Code: EPA Method 300.0						
File ID: 30				Batch ID: 32784		Analysis Date: 04/23/2014 12:12					
Sample ID:	LFB-32784	Units :	mg/L	Run ID: IC_1_140422A		Prep Date: 04/22/2014 12:05					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrate (NO3) - N	5.24	0.25	5		105	90	110				
Sulfate (SO4)	102	0.5	100		102	90	110				

Sample Matrix Spike

Sample Matrix Spike		Type	LFM		Test Code: EPA Method 300.0						
File ID: 33				Batch ID: 32784		Analysis Date: 04/22/2014 15:22					
Sample ID:	14042201-01ALFM	Units :	mg/L	Run ID: IC_1_140422A		Prep Date: 04/22/2014 12:05					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrate (NO3) - N	23.4	0.63	25	0	93	80	120				
Sulfate (SO4)	549	1.3	500	135.1	83	80	120				

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	LFMD		Test Code: EPA Method 300.0						
File ID: 34				Batch ID: 32784		Analysis Date: 04/22/2014 15:40					
Sample ID:	14042201-01ALFMD	Units :	mg/L	Run ID: IC_1_140422A		Prep Date: 04/22/2014 12:05					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrate (NO3) - N	23.7	0.63	25	0	95	80	120	23.37	1.3(15)		
Sulfate (SO4)	551	1.3	500	135.1	83	80	120	549.5	0.3(15)		

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
25-Apr-14

QC Summary Report

Work Order:
14042221

Method Blank

File ID:	Type MBLK	Test Code: SM3500-Fe B	Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00						
Sample ID: MBLK-W0424FR	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05								

Laboratory Control Spike

File ID:	Type LCS	Test Code: SM3500-Fe B	Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00						
Sample ID: LCS-W0424FR	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.31	0.05	1.5		88	70	130			

Sample Matrix Spike

File ID:	Type MS	Test Code: SM3500-Fe B	Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00						
Sample ID: 14041801-09AMS	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.9	0.05	1.5	0.415	99	66	130			

Sample Matrix Spike Duplicate

File ID:	Type MSD	Test Code: SM3500-Fe B	Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00						
Sample ID: 14041801-09AMSD	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.9	0.05	1.5	0.415	99	66	130	1.901	0.2(20)	

Comments:

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Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
05-May-14

QC Summary Report

Work Order:
14042221

Method Blank

Type **MBLK** Test Code: EPA Method SW6020 / SW6020A

File ID: 020_

Batch ID: 32811

Analysis Date: 04/29/2014 13:39

Sample ID: MB-32811

Units : mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	ND	0.005								

Laboratory Control Spike

Type **LCS** Test Code: EPA Method SW6020 / SW6020A

File ID: 023_

Batch ID: 32811

Analysis Date: 04/29/2014 13:47

Sample ID: LCS-32811

Units : mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.246	0.005	0.25		98	80	120			

Sample Matrix Spike

Type **MS** Test Code: EPA Method SW6020 / SW6020A

File ID: 024_

Batch ID: 32811

Analysis Date: 04/29/2014 13:50

Sample ID: 14042201-01AMS

Units : mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.254	0.005	0.25	0	102	75	125			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: EPA Method SW6020 / SW6020A

File ID: 025_

Batch ID: 32811

Analysis Date: 04/29/2014 13:53

Sample ID: 14042201-01AMSD

Units : mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.259	0.005	0.25	0	104	75	125	0.2541	1.9(20)	

Comments:

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Date:
05-May-14

QC Summary Report

Work Order:
14042221

Method Blank

File ID: 014_	Type MBLK	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 32786	Analysis Date: 04/23/2014 17:13						
Sample ID: MB-32786	Units : mg/L	Run ID: ICP/MS_140423A	Prep Date: 04/22/2014 14:13							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	ND	0.005								

Laboratory Control Spike

File ID: 016_	Type LCS	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 32786	Analysis Date: 04/23/2014 17:19						
Sample ID: LCS-32786	Units : mg/L	Run ID: ICP/MS_140423A	Prep Date: 04/22/2014 14:13							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0474	0.005	0.05		95	80	120			

Sample Matrix Spike

File ID: 018_	Type MS	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 32786	Analysis Date: 04/23/2014 17:25						
Sample ID: 14042245-01AMS	Units : mg/L	Run ID: ICP/MS_140423A	Prep Date: 04/22/2014 14:13							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0505	0.005	0.05		0	101	75	125		

Sample Matrix Spike Duplicate

File ID: 019_	Type MSD	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 32786	Analysis Date: 04/23/2014 17:28						
Sample ID: 14042245-01AMSD	Units : mg/L	Run ID: ICP/MS_140423A	Prep Date: 04/22/2014 14:13							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0498	0.005	0.05		0	99.6	75	125	0.05055	1.5(20)

Comments:

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QC Summary Report

Date:
29-Apr-14

Work Order:
14042221

Method Blank

File ID:	Type	MBLK	Test Code:	Modified Method RSK-175 GC/FID						
			Batch ID:	32789						
			Analysis Date:	04/23/2014 19:42						
Sample ID:	MBLK-32789	Units : mg/L	Run ID:	FID_6_140423A						
			Prep Date:	04/23/2014 10:17						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	ND	0.01								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	Modified Method RSK-175 GC/FID						
			Batch ID:	32789						
			Analysis Date:	04/23/2014 20:02						
Sample ID:	LCS-32789	Units : mg/L	Run ID:	FID_6_140423A						
			Prep Date:	04/23/2014 10:17						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	0.356	0.01	0.452		79	54	138			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	Modified Method RSK-175 GC/FID						
			Batch ID:	32789						
			Analysis Date:	04/25/2014 14:36						
Sample ID:	14041701-02AMS	Units : mg/L	Run ID:	FID_6_140423A						
			Prep Date:	04/23/2014 10:17						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	37.5	0.1	18.1	25.72	65	43	138			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	Modified Method RSK-175 GC/FID						
			Batch ID:	32789						
			Analysis Date:	04/25/2014 14:36						
Sample ID:	14041701-02AMSD	Units : mg/L	Run ID:	FID_6_140423A						
			Prep Date:	04/23/2014 10:17						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	34.6	0.1	18.1	25.72	49	43	138	37.49	7.9(27)	

Comments:

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Date:
05-May-14

QC Summary Report

Work Order:
1404221

Method Blank

Method Blank		Type	MBLK	Test Code:	SM4500-S D					
File ID:		Batch ID:	W0423SU	Analysis Date:	04/23/2014 00:00					
Sample ID:	MBLK-W0423SU	Units : mg/L		Run ID:	WETLAB_140423C	Prep Date:	04/23/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND		0.1							

Laboratory Control Spike

Laboratory Control Spike		Type	LCS	Test Code:	SM4500-S D					
File ID:		Batch ID:	W0423SU	Analysis Date:	04/23/2014 00:00					
Sample ID:	LCS-W0423SU	Units : mg/L		Run ID:	WETLAB_140423C	Prep Date:	04/23/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.948	0.1	1		95	60	140			

Sample Matrix Spike

Sample Matrix Spike		Type	MS	Test Code:	SM4500-S D					
File ID:		Batch ID:	W0423SU	Analysis Date:	04/23/2014 00:00					
Sample ID:	14042201-01AMS	Units : mg/L		Run ID:	WETLAB_140423C	Prep Date:	04/23/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.742	0.1	1		0 74	51	144			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	MSD	Test Code:	SM4500-S D					
File ID:		Batch ID:	W0423SU	Analysis Date:	04/23/2014 00:00					
Sample ID:	14042201-01AMSD	Units : mg/L		Run ID:	WETLAB_140423C	Prep Date:	04/23/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.718	0.1	1		0 72	51	144	0.742	3.3(20)	

Comments:

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QC Summary Report

Work Order:
14042221

Date:
28-Apr-14

Method Blank

File ID: 1A04174186.D

Sample ID: MBLK-32783

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.25								
TPH-E (ORO)	ND	0.5								
Surr: Nonane	0.149		0.15		99	53	145			

Laboratory Control Spike

File ID: 1A04174187.D

Sample ID: LCS-32783

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.3	0.05	2.5		92	70	130			
Surr: Nonane	0.137		0.15		91	53	145			

Sample Matrix Spike

File ID: 1A04174194.D

Sample ID: 14041803-05AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.46	0.05	2.5	0	98	51	151			
Surr: Nonane	0.133		0.15		89	53	145			

Sample Matrix Spike Duplicate

File ID: 1A04174195.D

Sample ID: 14041803-05AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.4	0.05	2.5	0	96	51	151	2.462	2.5(40)	
Surr: Nonane	0.132		0.15		88	53	145			

Comments:

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Date:
28-Apr-14

QC Summary Report

Work Order:
14042221

Method Blank		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14042305.D		MBLK	Batch ID: MS09W0423B				Analysis Date: 04/23/2014 12:00			
Sample ID:	MBLK MS09W0423B	Units : mg/L	Run ID: MSD_09_140423A	Prep Date: 04/23/2014 12:00						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.25								
Surr: 1,2-Dichloroethane-d4	0.00968		0.01		97	70	130			
Surr: Toluene-d8	0.00874		0.01		87	70	130			
Surr: 4-Bromofluorobenzene	0.00867		0.01		87	70	130			

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14042303.D		LCS	Batch ID: MS09W0423B				Analysis Date: 04/23/2014 11:11			
Sample ID:	GLCS MS09W0423B	Units : mg/L	Run ID: MSD_09_140423A	Prep Date: 04/23/2014 11:11						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.352	0.05	0.4		88	70	130			
Surr: 1,2-Dichloroethane-d4	0.00941		0.01		94	70	130			
Surr: Toluene-d8	0.00773		0.01		77	70	130			
Surr: 4-Bromofluorobenzene	0.00874		0.01		87	70	130			

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14042316.D		MS	Batch ID: MS09W0423B				Analysis Date: 04/23/2014 16:17			
Sample ID:	14042221-03AGS	Units : mg/L	Run ID: MSD_09_140423A	Prep Date: 04/23/2014 16:17						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.65	0.25	2	0	83	54	143			
Surr: 1,2-Dichloroethane-d4	0.0471		0.05		94	70	130			
Surr: Toluene-d8	0.039		0.05		78	70	130			
Surr: 4-Bromofluorobenzene	0.0442		0.05		88	70	130			

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14042317.D		MSD	Batch ID: MS09W0423B				Analysis Date: 04/23/2014 16:40			
Sample ID:	14042221-03AGSD	Units : mg/L	Run ID: MSD_09_140423A	Prep Date: 04/23/2014 16:40						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.61	0.25	2	0	80	54	143	1.655	2.9(23)	
Surr: 1,2-Dichloroethane-d4	0.0453		0.05		91	70	130			
Surr: Toluene-d8	0.0395		0.05		79	70	130			
Surr: 4-Bromofluorobenzene	0.0441		0.05		88	70	130			

Comments:
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Alpha Analytical, Inc.

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Date:
28-Apr-14

QC Summary Report

Work Order:
14042221

Method Blank

File ID: 14042305.D

Sample ID: MBLK MS09W0423A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.68		10		97	70	130			
Surr: Toluene-d8	8.74		10		87	70	130			
Surr: 4-Bromofluorobenzene	8.67		10		87	70	130			

Laboratory Control Spike

File ID: 14042302.D

Sample ID: LCS MS09W0423A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	11.5	0.5	10		115	70	130			
Toluene	10.4	0.5	10		104	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
Xylenes, Total	21.5	0.5	20		108	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10		97	70	130			
Surr: Toluene-d8	9.99		10		99.9	70	130			
Surr: 4-Bromofluorobenzene	8.43		10		84	70	130			

Sample Matrix Spike

File ID: 14042309.D

Sample ID: 14042221-03AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	53.4	1.3	50	0	107	67	134			
Toluene	46.7	1.3	50	0	93	38	130			
Ethylbenzene	47.6	1.3	50	0	95	70	130			
Xylenes, Total	97.2	1.3	100	0	97	70	130			
Surr: 1,2-Dichloroethane-d4	47.1		50		94	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	42.2		50		84	70	130			

Sample Matrix Spike Duplicate

File ID: 14042315.D

Sample ID: 14042221-03AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	59	1.3	50	0	118	67	134	53.43	9.9(21)	
Toluene	50.6	1.3	50	0	101	38	130	46.68	8.0(20)	
Ethylbenzene	51.7	1.3	50	0	103	70	130	47.64	8.2(20)	
Xylenes, Total	104	1.3	100	0	104	70	130	97.23	6.5(22)	
Surr: 1,2-Dichloroethane-d4	49.3		50		99	70	130			
Surr: Toluene-d8	45.9		50		92	70	130			
Surr: 4-Bromofluorobenzene	42.4		50		85	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042221
Report Due By : 5:00 PM On : 06-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory Henneck, Scott Wenning

PO :
 Client's COC # : 11088

Job : WA000804.2014/KMLT-Harbor Island

Cooler Temp Samples Received Date Printed
 0 °C 22-Apr-14 22-Apr-14

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		TAT	Requested Tests							Sample Remarks							
			Alpha	Sub		300_0_W	3500FE_20_S_W	HOLD	METALS_A_Q	METALS_D_S	METHANE_W	SULFIDE_W		TPHE_W						
ARC14042221-01A	11	AQ 04/21/14 16:00	6	0	10	NO3_S04														
ARC14042221-02A	12	AQ 04/21/14 15:00	6	0	10	NO3_S04														
ARC14042221-03A	MW-5	AQ 04/21/14 11:55	7	0	10				Pb											NWTRP-Dx
ARC14042221-04A	MW-7	AQ 04/21/14 15:40	12	0	10	NO3_S04			FE+2											
ARC14042221-05A	MW-9	AQ 04/21/14 15:00	11	0	10	NO3_S04			FE+2											
ARC14042221-06A	MW-14	AQ 04/21/14 12:30	10	0	10	NO3_S04			FE+2											
ARC14042221-07A	MW-19	AQ 04/21/14 13:50	10	0	10	NO3_S04			FE+2											
ARC14042221-08A	TMW-1	AQ 04/21/14 14:00	6	0	10	NO3_S04														
ARC14042221-09A	TMW-2	AQ 04/21/14 12:45	6	0	10	NO3_S04														
ARC14042221-10A	BD-1	AQ 04/21/14 00:00	3	0	10															

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs.:

Signature: K. Henneck Print Name: K. Henneck Company: Alpha Analytical, Inc. Date/Time: 4/22/14 10:20

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042221
Report Due By : 5:00 PM On : 06-May-14

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam x kyle.haslam@arcadis-us.com

EDD Required : No
 Sampled by : Rory Henneck, Scott Wenning

PO :
 Client's COC # : 11088 Job : WA000804.2014/KMLT-Harbor Island
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
 Cooler Temp Samples Received Date Printed
 0 °C 22-Apr-14 22-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub	TAT	Requested Tests						Sample Remarks	
						300_0_W	3500FE_20_S_W	HOLD	METALS_A_Q	METALS_D_S	METHANE_W		SULFIDE_W
ARC14042221-11A	Trip Blank	AQ 04/21/14 00:00	1	0	10			Hold					Reno Trip Blank 1/19/14

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs.:

Signature: _____ Print Name: _____ Company: Alpha Analytical, Inc. Date/Time: 4/22/14 1320

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042221
Report Due By : 5:00 PM On : 06-May-14

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam x kyle.haslam@arcadis-us.com

EDD Required : No
 Sampled by : Rory Henneck, Scott Wenning
 Cooler Temp 0 °C Samples Received 22-Apr-14 Date Printed 22-Apr-14

Client's COC # : 11088 Job : WA000804.2014/KMLT-Harbor Island
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests		Sample Remarks
			Alpha	Sub TAT	TPHP_W	VOC_W	
ARC14042221-01A	11	AQ 04/21/14 16:00	6	0	10	NWTPH-GX BTXE_C	
ARC14042221-02A	12	AQ 04/21/14 15:00	6	0	10	NWTPH-GX BTXE_C	
ARC14042221-03A	NW-5	AQ 04/21/14 11:55	7	0	10	NWTPH-GX BTXE_C	
ARC14042221-04A	NW-7	AQ 04/21/14 15:40	12	0	10	NWTPH-GX BTXE_C	
ARC14042221-05A	NW-9	AQ 04/21/14 15:00	11	0	10	NWTPH-GX BTXE_C	
ARC14042221-06A	NW-14	AQ 04/21/14 12:30	10	0	10	NWTPH-GX BTXE_C	
ARC14042221-07A	NW-19	AQ 04/21/14 13:50	10	0	10	NWTPH-GX BTXE_C	
ARC14042221-08A	TMW-1	AQ 04/21/14 14:00	6	0	10	NWTPH-GX BTXE_C	
ARC14042221-09A	TMW-2	AQ 04/21/14 12:45	6	0	10	NWTPH-GX BTXE_C	
ARC14042221-10A	BD-1	AQ 04/21/14 00:00	3	0	10	NWTPH-GX BTXE_C	

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs.

Logged in by: K Henney K Henney Alpha Analytical, Inc. 4/22/14 10:20

Signature: _____ Print Name: _____ Company: _____ Date/Time: _____

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042221
Report Due By : 5:00 PM On : 06-May-14

Client:

Arcadis-US
 1100 Olive Way, Suite 800

Seattle, WA 98101

Report Attention

Phone Number **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory Henneke, Scott Wenning

PO :

Client's COC # : 11088

Job : WA000804.2014/KMLT-Harbor Island

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
 0 °C 22-Apr-14 22-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub	TAT	Requested Tests						Sample Remarks	
						TPHP_W	VOC_W						
ARC14042221-11A	Trip Blank	AQ 04/21/14 00:00	1	0	10								Reno Trip Blank 1/19/14

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs.:

Signature	Print Name	Company	Date/Time
<i>K. Henneke</i>	K. Henneke	Alpha Analytical, Inc.	4/22/14 10:20

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:
 Company: Kinder Morgan Energy Partners
 Attn: Robert Trudinger
 Address: 110 Local Blvd
 City, State, Zip: Richmond, CA 94804
 Phone Number: 510-672-4110 Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-386-9089
 Phone: 702-281-4848
 Phone: 714-386-2901

Page # 1 of 1

Consultant/Client Info:
 Company: ARCADIS U.S. Inc
 Address: 1100 Olive Way, Suite 500
 City, State, Zip: Seattle, WA 98101
 Job #
 Job Name: P.O. #:

Job and Purchase Order Info:
 WA 000504 2014
 KMT - Hector Island

Report Attention/Project Manager:
 Name: Jonathan Flanagan
 Email Address: Jonathan.Flanagan@arcadis-usa.com
 Phone #: 206-726-4712
 Cell #:

QC Deliverable Info:
 EDD Required? Yes / No
 EDF Required? Yes / No
 Global ID:
 Data Validation Level: III or IV

Samples Collected from which State? (circle one) AZ CA NV WA ID OR DOD Site Other

Time Sampled (HH:MM)	Date Sampled	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested	Remarks
15:00	4-21-14	AR	ARC44042221-01	11	5hr	N	6	GRO (N/PT-6x) BTEX (8260B) Nitrate (300.0) Sulfate (300.0) Sulfide (400SD) Ferrus Iron (SU 2500-Fe-B) Methane (KSK-175) Total Lead (SW 6020) Dissolved Lead (SW 6020) DRO/HO (N/PT-Dx)	
11:55				MW-5			7	X	
15:40				MW-7			12	X	
15:00				MW-9			11	X	
12:30				MW-14			10	X	
13:50				MW-19			10	X	
14:00				TMW-1			6	X	
14:45				TMW-2			6	X	
				BD-1			3	X	
				Top Blank			1	HOLD	Held

ADDITIONAL INSTRUCTIONS:

Encl report to kjerhaslam@arcadis-usa.com, also.

(field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (e) (2).

Sampled By: Roy Hendel a Scott Werning
 Relinquished by: (Signature/Affiliation):
 Date: 4-21-14 Time: 17:00
 Received By: (Signature/Affiliation):
 Date: 4-21-14 Time: 17:00
 Relinquished by: (Signature/Affiliation):
 Date: 4/22/14 Time: 0940
 Received by: (Signature/Affiliation):
 Date: 4/22/14 Time: 0940

* Key: AQ - Aqueous WA - Waste OT - Other ** L - Litter V - VOA S - Soil Jar O - Other T - Tedlar B - Brass P - Plastic OT - Other
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/23/14

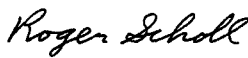


Job: WA000804.2014.00003/Harbor Island Annual GWM

Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-6				
Lab ID: ARC14042321-03A Nitrate (NO3) - N	1.6	0.25 mg/L	04/23/14 10:55	04/23/14 19:04
Date Sampled 04/22/14 15:20 Sulfate (SO4)	23	0.50 mg/L	04/23/14 10:55	04/23/14 19:04
Client ID: A-27				
Lab ID: ARC14042321-04A Nitrate (NO3) - N	ND	0.25 mg/L	04/23/14 10:55	04/23/14 19:41
Date Sampled 04/22/14 15:45 Sulfate (SO4)	4.2	0.50 mg/L	04/23/14 10:55	04/23/14 19:41
Client ID: A-28R				
Lab ID: ARC14042321-05A Nitrate (NO3) - N	0.45	0.25 mg/L	04/23/14 10:55	04/23/14 19:59
Date Sampled 04/22/14 16:20 Sulfate (SO4)	2.2	0.50 mg/L	04/23/14 10:55	04/23/14 19:59
Client ID: A-23R				
Lab ID: ARC14042321-06A Nitrate (NO3) - N	ND	0.25 mg/L	04/23/14 10:55	04/23/14 20:18
Date Sampled 04/22/14 13:26 Sulfate (SO4)	1,900	500 mg/L	04/23/14 10:55	04/24/14 21:54

ND = Not Detected






 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
 Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
 Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/6/14

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/23/14

Job: WA000804.2014.00003/Harbor Island Annual GWM

Iron by Spectrophotometer SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-6 Lab ID : ARC14042321-03A Iron, Ferrous (+2) Date Sampled 04/22/14 15:20	ND	0.050 mg/L	04/25/14	04/25/14
Client ID: A-27 Lab ID : ARC14042321-04A Iron, Ferrous (+2) Date Sampled 04/22/14 15:45	2.4	0.050 mg/L	04/25/14	04/25/14
Client ID: A-28R Lab ID : ARC14042321-05A Iron, Ferrous (+2) Date Sampled 04/22/14 16:20	47	1.0 mg/L	04/25/14	04/25/14
Client ID: A-23R Lab ID : ARC14042321-06A Iron, Ferrous (+2) Date Sampled 04/22/14 13:26	18	0.50 mg/L	04/25/14	04/25/14

Ferrous iron samples were color developed promptly after laboratory login.

ND = Not Detected



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5/6/14

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/23/14

Job: WA000804.2014.00003/Harbor Island Annual GWM

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-2 Lab ID : ARC14042321-02A Lead (Pb) Date Sampled 04/22/14 14:30	ND	0.0050 mg/L	04/24/14	04/24/14
Client ID: MW-6 Lab ID : ARC14042321-03A Lead (Pb) Date Sampled 04/22/14 15:20	ND	0.0050 mg/L	04/24/14	04/24/14
Client ID: A-28R Lab ID : ARC14042321-05A Lead (Pb) Date Sampled 04/22/14 16:20	ND	0.0050 mg/L	04/24/14	04/24/14
Client ID: A-23R Lab ID : ARC14042321-06A Lead (Pb) Date Sampled 04/22/14 13:26	ND	0.0050 mg/L	04/24/14	04/24/14

ND = Not Detected



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/23/14

Job: WA000804.2014.00003/Harbor Island Annual GWM

Dissolved Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-23R Lab ID : ARC14042321-06A Lead (Pb), Dissolved Date Sampled 04/22/14 13:26	ND	0.0050 mg/L	04/28/14	04/28/14

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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ANALYTICAL REPORT

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Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/23/14

Job: WA000804.2014.00003/Harbor Island Annual GWM

Dissolved Gases Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-6 Lab ID : ARC14042321-03A Methane Date Sampled 04/22/14 15:20	ND	0.010 mg/L	04/29/14	04/29/14
Client ID: A-27 Lab ID : ARC14042321-04A Methane Date Sampled 04/22/14 15:45	2.9	0.010 mg/L	04/29/14	04/29/14
Client ID: A-28R Lab ID : ARC14042321-05A Methane Date Sampled 04/22/14 16:20	4.3	0.010 mg/L	04/29/14	04/29/14
Client ID: A-23R Lab ID : ARC14042321-06A Methane Date Sampled 04/22/14 13:26	0.018	0.010 mg/L	04/29/14	04/29/14

ND = Not Detected



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✓
5/6/14
Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/23/14

Job: WA000804.2014.00003/Harbor Island Annual GWM

Sulfide SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-2 Lab ID: ARC14042321-02A Sulfide Date Sampled 04/22/14 14:30	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-6 Lab ID: ARC14042321-03A Sulfide Date Sampled 04/22/14 15:20	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: A-27 Lab ID: ARC14042321-04A Sulfide Date Sampled 04/22/14 15:45	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: A-28R Lab ID: ARC14042321-05A Sulfide Date Sampled 04/22/14 16:20	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: A-23R Lab ID: ARC14042321-06A Sulfide Date Sampled 04/22/14 13:26	ND	0.10 mg/L	04/28/14	04/28/14

ND = Not Detected



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 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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5/6/14
Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/23/14

Job: WA000804.2014.00003/Harbor Island Annual GWM

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	MW-22					
Lab ID :	ARC14042321-01A	TPH-E (DRO), Silica Gel	0.38	0.25 mg/L	04/24/14	04/24/14
Date Sampled	04/22/14 14:00	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/24/14
		Surr: Nonane, Silica Gel	91	(53-145) %REC	04/24/14	04/24/14
		TPH-E (DRO)	2.9	0.25 mg/L	04/24/14	04/24/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/24/14
		Surr: Nonane	90	(53-145) %REC	04/24/14	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/29/14	04/29/14
		Benzene	ND	1.0 µg/L	04/29/14	04/29/14
		Toluene	ND	1.0 µg/L	04/29/14	04/29/14
		Ethylbenzene	ND	1.0 µg/L	04/29/14	04/29/14
		Xylenes, Total	ND	1.0 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	119	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	98	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	82	(70-130) %REC	04/29/14	04/29/14
Client ID :	MW-2					
Lab ID :	ARC14042321-02A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14	04/24/14
Date Sampled	04/22/14 14:30	TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/24/14
		Surr: Nonane	88	(53-145) %REC	04/24/14	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/29/14	04/29/14
		Benzene	ND	0.50 µg/L	04/29/14	04/29/14
		Toluene	ND	0.50 µg/L	04/29/14	04/29/14
		Ethylbenzene	ND	0.50 µg/L	04/29/14	04/29/14
		Xylenes, Total	ND	0.50 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	116	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	97	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/29/14	04/29/14
Client ID :	MW-6					
Lab ID :	ARC14042321-03A	TPH-P (GRO)	ND	0.25 mg/L	04/29/14	04/29/14
Date Sampled	04/22/14 15:20	Benzene	ND	0.50 µg/L	04/29/14	04/29/14
		Toluene	ND	0.50 µg/L	04/29/14	04/29/14
		Ethylbenzene	ND	0.50 µg/L	04/29/14	04/29/14
		Xylenes, Total	ND	0.50 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	101	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/29/14	04/29/14



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : A-27

Lab ID :	ARC14042321-04A	TPH-P (GRO)	2.9	0.40 mg/L	04/29/14	04/29/14
Date Sampled	04/22/14 15:45	Benzene	62	2.0 µg/L	04/29/14	04/29/14
		Toluene	2.3	2.0 µg/L	04/29/14	04/29/14
		Ethylbenzene	74	2.0 µg/L	04/29/14	04/29/14
		Xylenes, Total	78	2.0 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	117	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	93	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	04/29/14	04/29/14

Client ID : A-28R

Lab ID :	ARC14042321-05A	TPH-P (GRO)	2.2	0.25 mg/L	04/29/14	04/29/14
Date Sampled	04/22/14 16:20	Benzene	62	1.0 µg/L	04/29/14	04/29/14
		Toluene	2.2	1.0 µg/L	04/29/14	04/29/14
		Ethylbenzene	16	1.0 µg/L	04/29/14	04/29/14
		Xylenes, Total	2.5	1.0 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	118	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	90	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/29/14	04/29/14

Client ID : A-23R

Lab ID :	ARC14042321-06A	TPH-P (GRO)	ND	0.25 mg/L	04/29/14	04/29/14
Date Sampled	04/22/14 13:26	Benzene	ND O	1.0 µg/L	04/29/14	04/29/14
		Toluene	ND O	1.0 µg/L	04/29/14	04/29/14
		Ethylbenzene	ND O	1.0 µg/L	04/29/14	04/29/14
		Xylenes, Total	ND O	1.0 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	116	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	98	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	85	(70-130) %REC	04/29/14	04/29/14

Client ID : MW-16

Lab ID :	ARC14042321-07A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14	04/24/14
Date Sampled	04/22/14 15:30	TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/24/14
		Surr: Nonane	98	(53-145) %REC	04/24/14	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/29/14	04/29/14
		Benzene	ND	0.50 µg/L	04/29/14	04/29/14
		Toluene	ND	0.50 µg/L	04/29/14	04/29/14
		Ethylbenzene	ND	0.50 µg/L	04/29/14	04/29/14
		Xylenes, Total	ND	0.50 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	117	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	98	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	04/29/14	04/29/14

Client ID : MW-18

Lab ID :	ARC14042321-08A	TPH-P (GRO)	ND	0.25 mg/L	04/29/14	04/29/14
Date Sampled	04/22/14 15:00	Benzene	ND	0.50 µg/L	04/29/14	04/29/14
		Toluene	ND	0.50 µg/L	04/29/14	04/29/14
		Ethylbenzene	ND	0.50 µg/L	04/29/14	04/29/14
		Xylenes, Total	ND	0.50 µg/L	04/29/14	04/29/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/29/14	04/29/14
		Surr: Toluene-d8	101	(70-130) %REC	04/29/14	04/29/14
		Surr: 4-Bromofluorobenzene	88	(70-130) %REC	04/29/14	04/29/14



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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

Oil Range Organics (ORO) C22-C40+

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/6/14

Report Date



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VOC Sample Preservation Report

Work Order: ARC14042321

Job: WA000804.2014.00003/Harbor Island Annual GWM

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14042321-01A	MW-22	Aqueous	2
14042321-02A	MW-2	Aqueous	2
14042321-03A	MW-6	Aqueous	2
14042321-04A	A-27	Aqueous	2
14042321-05A	A-28R	Aqueous	2
14042321-06A	A-23R	Aqueous	2
14042321-07A	MW-16	Aqueous	2
14042321-08A	MW-18	Aqueous	2

5/6/14

Report Date

Page 1 of 1



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Date:
06-May-14

QC Summary Report

Work Order:
14042321

Method Blank

Method Blank		Type	Test Code: EPA Method 300.0							
File ID: 29		MBLK	Batch ID: 32791					Analysis Date: 04/23/2014 11:53		
Sample ID: MB-32791	Units : mg/L		Run ID: IC_1_140423A					Prep Date: 04/23/2014 10:55		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	ND	0.25								
Sulfate (SO4)	ND	0.5								

Laboratory Fortified Blank

Laboratory Fortified Blank		Type	Test Code: EPA Method 300.0							
File ID: 32		LFB	Batch ID: 32791					Analysis Date: 04/23/2014 13:14		
Sample ID: LFB-32791	Units : mg/L		Run ID: IC_1_140423A					Prep Date: 04/23/2014 10:55		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	5.17	0.25	5		103	90	110			
Sulfate (SO4)	100	0.5	100		100	90	110			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method 300.0							
File ID: 37		LFM	Batch ID: 32791					Analysis Date: 04/23/2014 15:03		
Sample ID: 14042320-01ALFM	Units : mg/L		Run ID: IC_1_140423A					Prep Date: 04/23/2014 10:55		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	26.8	0.63	25	1.557	101	80	120			
Sulfate (SO4)	507	1.3	500	6.809	100	80	120			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method 300.0							
File ID: 38		LFMD	Batch ID: 32791					Analysis Date: 04/23/2014 15:22		
Sample ID: 14042320-01ALFMD	Units : mg/L		Run ID: IC_1_140423A					Prep Date: 04/23/2014 10:55		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	26.7	0.63	25	1.557	100	80	120	26.79	0.5(15)	
Sulfate (SO4)	505	1.3	500	6.809	99.6	80	120	507.3	0.5(15)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
06-May-14

QC Summary Report

Work Order:
14042321

Method Blank

File ID:	Type MBLK	Test Code: SM3500-Fe B	Batch ID: W0425FR	Analysis Date: 04/25/2014 00:00
Sample ID: MBLK-W0425FR	Units : mg/L	Run ID: WETLAB_140425A	Prep Date: 04/25/2014 00:00	
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05		

Laboratory Control Spike

File ID:	Type LCS	Test Code: SM3500-Fe B	Batch ID: W0425FR	Analysis Date: 04/25/2014 00:00
Sample ID: LCS-W0425FR	Units : mg/L	Run ID: WETLAB_140425A	Prep Date: 04/25/2014 00:00	
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)	Qual
Iron, Ferrous (+2)	1.39	0.05	1.5 93 70 130	

Sample Matrix Spike

File ID:	Type MS	Test Code: SM3500-Fe B	Batch ID: W0425FR	Analysis Date: 04/25/2014 00:00
Sample ID: 14042201-01AMS	Units : mg/L	Run ID: WETLAB_140425A	Prep Date: 04/25/2014 00:00	
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)	Qual
Iron, Ferrous (+2)	1.43	0.05	1.5 0 96 66 130	

Sample Matrix Spike Duplicate

File ID:	Type MSD	Test Code: SM3500-Fe B	Batch ID: W0425FR	Analysis Date: 04/25/2014 00:00
Sample ID: 14042201-01AMSD	Units : mg/L	Run ID: WETLAB_140425A	Prep Date: 04/25/2014 00:00	
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit)	Qual
Iron, Ferrous (+2)	1.51	0.05	1.5 0 101 66 130 1.434 5.2(20)	

Comments:

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Date:
29-Apr-14

QC Summary Report

Work Order:
14042321

Method Blank

File ID: 028_	Type MBLK	Test Code: EPA Method SW6020 / SW6020A								
Sample ID: MB-32723	Units : mg/L	Batch ID: 32723			Analysis Date: 04/10/2014 14:02					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	ND	0.005								

Laboratory Control Spike

File ID: 030_	Type LCS	Test Code: EPA Method SW6020 / SW6020A								
Sample ID: LCS-32723	Units : mg/L	Batch ID: 32723			Analysis Date: 04/10/2014 14:08					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.272	0.005	0.25		109	80	120			

Sample Matrix Spike

File ID: 032_	Type MS	Test Code: EPA Method SW6020 / SW6020A								
Sample ID: 14040304-01AMS	Units : mg/L	Batch ID: 32723			Analysis Date: 04/10/2014 14:13					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.262	0.005	0.25	0	105	75	125			

Sample Matrix Spike Duplicate

File ID: 033_	Type MSD	Test Code: EPA Method SW6020 / SW6020A								
Sample ID: 14040304-01AMSD	Units : mg/L	Batch ID: 32723			Analysis Date: 04/10/2014 14:16					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.266	0.005	0.25	0	106	75	125	0.2624	1.4(20)	

Comments:

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Date:
01-May-14

QC Summary Report

Work Order:
14042321

Method Blank

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
017_	MBLK	EPA Method 200.8	32810	04/28/2014 16:35						
Sample ID:	Units :	Run ID:	Prep Date:							
MB-32810	mg/L	ICP/MS_140428B	04/28/2014 13:39							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	ND	0.005								

Laboratory Control Spike

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
019_	LCS	EPA Method 200.8	32810	04/28/2014 16:41						
Sample ID:	Units :	Run ID:	Prep Date:							
LCS-32810	mg/L	ICP/MS_140428B	04/28/2014 13:39							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0464	0.005	0.05		93	80	120			

Sample Matrix Spike

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
021_	MS	EPA Method 200.8	32810	04/28/2014 16:47						
Sample ID:	Units :	Run ID:	Prep Date:							
14042542-01AMS	mg/L	ICP/MS_140428B	04/28/2014 13:39							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0442	0.005	0.05		0	88	75	125		

Sample Matrix Spike Duplicate

File ID:	Type	Test Code:	Batch ID:	Analysis Date:						
022_	MSD	EPA Method 200.8	32810	04/28/2014 16:49						
Sample ID:	Units :	Run ID:	Prep Date:							
14042542-01AMSD	mg/L	ICP/MS_140428B	04/28/2014 13:39							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb), Dissolved	0.0445	0.005	0.05		0	89	75	125	0.0442	0.7(20)

Comments:

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Date:
06-May-14

QC Summary Report

Work Order:
14042321

Method Blank

File ID:	Type	MBLK	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 16:18		
Sample ID:	MBLK-32816	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	ND	0.01								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 16:37		
Sample ID:	LCS-32816	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	0.344	0.01	0.452		76	54	138			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 19:36		
Sample ID:	14042423-09AMS	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	4.96	0.01	1.81	3.114	102	43	138			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 19:57		
Sample ID:	14042423-09AMSD	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	6.23	0.01	1.81	3.114	172	43	138	4.958	22.7(27)	M1

Comments:

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M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.



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Date:
06-May-14

QC Summary Report

Work Order:
14042321

Method Blank

File ID:	Type	MBLK	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	MBLK-W0428SU	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND		0.1							

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	LCS-W0428SU	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.982	0.1	1		98	60	140			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	14042320-02AMS	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.01	0.1	1		0	101	51	144		

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	14042320-02AMSD	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.02	0.1	1		0	102	51	144	1.006	1.5(20)

Comments:

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Date:
30-Apr-14

QC Summary Report

Work Order:
14042321

Method Blank

File ID: 7A04241405.D

Sample ID: MBLK-32796

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.25								
TPH-E (ORO)	ND	0.5								
Surr: Nonane	0.151		0.15		101	53	145			

Type MBLK Test Code: EPA Method SW8015B/C Ext

Batch ID: 32796

Analysis Date: 04/24/2014 11:42

Run ID: FID_7_140424A

Prep Date: 04/24/2014 09:55

Laboratory Control Spike

File ID: 7A04241406.D

Sample ID: LCS-32796

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.49	0.05	2.5		99.7	70	130			
Surr: Nonane	0.153		0.15		102	53	145			

Type LCS Test Code: EPA Method SW8015B/C Ext

Batch ID: 32796

Analysis Date: 04/24/2014 12:08

Run ID: FID_7_140424A

Prep Date: 04/24/2014 09:55

Sample Matrix Spike

File ID: 7A04241420.D

Sample ID: 14042321-07AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.43	0.05	2.5	0	97	51	151			
Surr: Nonane	0.127		0.15		85	53	145			

Type MS Test Code: EPA Method SW8015B/C Ext

Batch ID: 32796

Analysis Date: 04/24/2014 18:41

Run ID: FID_7_140424A

Prep Date: 04/24/2014 09:55

Sample Matrix Spike Duplicate

File ID: 7A04241421.D

Sample ID: 14042321-07AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.58	0.05	2.5	0	103	51	151	2.428	5.9(40)	
Surr: Nonane	0.124		0.15		83	53	145			

Type MSD Test Code: EPA Method SW8015B/C Ext

Batch ID: 32796

Analysis Date: 04/24/2014 19:08

Run ID: FID_7_140424A

Prep Date: 04/24/2014 09:55

Comments:

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QC Summary Report

Work Order:
14042321

Date:
30-Apr-14

Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.25								
Surr: 1,2-Dichloroethane-d4	0.0102		0.01		102	70	130			
Surr: Toluene-d8	0.01		0.01		100	70	130			
Surr: 4-Bromofluorobenzene	0.00929		0.01		93	70	130			

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.379	0.05	0.4		95	70	130			
Surr: 1,2-Dichloroethane-d4	0.0108		0.01		108	70	130			
Surr: Toluene-d8	0.00927		0.01		93	70	130			
Surr: 4-Bromofluorobenzene	0.00943		0.01		94	70	130			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.54	0.25	2	0	77	54	143			
Surr: 1,2-Dichloroethane-d4	0.0561		0.05		112	70	130			
Surr: Toluene-d8	0.0467		0.05		93	70	130			
Surr: 4-Bromofluorobenzene	0.0475		0.05		95	70	130			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.75	0.25	2	0	87	54	143	1.542	12.4(23)	
Surr: 1,2-Dichloroethane-d4	0.0567		0.05		113	70	130			
Surr: Toluene-d8	0.0464		0.05		93	70	130			
Surr: 4-Bromofluorobenzene	0.0459		0.05		92	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
30-Apr-14

QC Summary Report

Work Order:
14042321

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140429\14042904.D

Batch ID: MS10W0429A

Analysis Date: 04/29/2014 11:09

Sample ID: MBLK MS10W0429A

Units: µg/L

Run ID: MSD_10_140429A

Prep Date: 04/29/2014 11:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.29		10		93	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140429\14042902.D

Batch ID: MS10W0429A

Analysis Date: 04/29/2014 10:21

Sample ID: LCS MS10W0429A

Units: µg/L

Run ID: MSD_10_140429A

Prep Date: 04/29/2014 10:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.78	0.5	10		98	70	130			
Toluene	9.78	0.5	10		98	80	120			
Ethylbenzene	10.1	0.5	10		101	80	120			
Xylenes, Total	20.2	0.5	20		101	70	130			
Surr: 1,2-Dichloroethane-d4	10.7		10		107	70	130			
Surr: Toluene-d8	9.73		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.49		10		95	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140429\14042916.D

Batch ID: MS10W0429A

Analysis Date: 04/29/2014 15:48

Sample ID: 14042321-02AMS

Units: µg/L

Run ID: MSD_10_140429A

Prep Date: 04/29/2014 15:48

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	44.4	1.3	50		0	89	67	134		
Toluene	42.8	1.3	50		0	86	38	130		
Ethylbenzene	45.4	1.3	50		0	91	70	130		
Xylenes, Total	90.1	1.3	100		0	90	70	130		
Surr: 1,2-Dichloroethane-d4	61.4		50		123	70	130			
Surr: Toluene-d8	46.9		50		94	70	130			
Surr: 4-Bromofluorobenzene	44.3		50		89	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140429\14042917.D

Batch ID: MS10W0429A

Analysis Date: 04/29/2014 16:10

Sample ID: 14042321-02AMSD

Units: µg/L

Run ID: MSD_10_140429A

Prep Date: 04/29/2014 16:10

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	45.8	1.3	50		0	92	67	134	44.41	3.1(21)
Toluene	44.2	1.3	50		0	88	38	130	42.75	3.2(20)
Ethylbenzene	46.6	1.3	50		0	93	70	130	45.42	2.6(20)
Xylenes, Total	92.8	1.3	100		0	93	70	130	90.09	2.9(22)
Surr: 1,2-Dichloroethane-d4	58.6		50		117	70	130			
Surr: Toluene-d8	46.8		50		94	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042321
Report Due By : 5:00 PM On : 07-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

Client's COC # : 11089 **Job :** WA000804.2014.000003/Harbor Island Annual GWM
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests						Sample Remarks
						300_0_W	3500FE_20_S_W	METALS_A_Q	METALS_D_S	METHANE_W	SULFIDE_W	

ARC14042321-01A	MW-22	AQ 04/22/14 14:00	6	0	10									Analyze Silica Gel only on hits.
ARC14042321-02A	MW-2	AQ 04/22/14 14:30	8	0	10									Analyze Silica Gel only on hits.
ARC14042321-03A	MW-6	AQ 04/22/14 15:20	11	0	10									
ARC14042321-04A	A-27	AQ 04/22/14 15:45	11	0	10									One Fe2+ v.o.a labeled A-26, matched up by sampling time. Confirmed BTEX required with Kyle.
ARC14042321-05A	A-28R	AQ 04/22/14 16:20	11	0	10									
ARC14042321-06A	A-23R	AQ 04/22/14 13:26	12	0	10									All bottles received labeled with sampling time 13:46, logged in per chain.
ARC14042321-07A	MW-16	AQ 04/22/14 15:30	6	0	10									Analyze Silica Gel only on hits.
ARC14042321-08A	MW-18	AQ 04/22/14 15:00	3	0	10									

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs. Filter and preserve dissolved Pb. Report attention and Total Pb by 6020 logged in per conversation with Kyle. : Logged in TPHE with and without Silica Gel, per email from Jonathan.

Logged in by: K. Murray K. Murray **Alpha Analytical, Inc.** 4/23/14 1120

Signature **Print Name** **Company** **Date/Time**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042321
Report Due By : 5:00 PM On : 07-May-14

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Client

Client's COC # : 11089 Job : WA000804.2014.00003/Harbor Island Annual GWM

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests			Sample Remarks
					TPHP_W	VOC_W		
ARC14042321-01A	MW-22	AQ 04/22/14 14:00	6	0	10	NWTPH-GX	BTXE_C	Analyze Silica Gel only on hits.
ARC14042321-02A	MW-2	AQ 04/22/14 14:30	8	0	10	NWTPH-GX	BTXE_C	Analyze Silica Gel only on hits.
ARC14042321-03A	MW-6	AQ 04/22/14 15:20	11	0	10	NWTPH-GX	BTXE_C	
ARC14042321-04A	A-27	AQ 04/22/14 15:45	11	0	10	NWTPH-GX	BTXE_C	One Fe2+ voa labeled A-26, matched up by sampling time. Confirmed BTEX required with Kyle.
ARC14042321-05A	A-28R	AQ 04/22/14 16:20	11	0	10	NWTPH-GX	BTXE_C	
ARC14042321-06A	A-23R	AQ 04/22/14 13:26	12	0	10	NWTPH-GX	BTXE_C	All bottles received labeled with sampling time 13:46, logged in per chain.
ARC14042321-07A	MW-16	AQ 04/22/14 15:30	6	0	10	NWTPH-GX	BTXE_C	Analyze Silica Gel only on hits.
ARC14042321-08A	MW-18	AQ 04/22/14 15:00	3	0	10	NWTPH-GX	BTXE_C	

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs. Filter and preserve dissolved Pb. Report attention and Total Pb by 6020 logged in per conversation with Kyle. Logged in TPHE with and without Silica Gel, per email from Jonathan.

Logged in by: K. Flomerfelt K. Flomerfelt Alpha Analytical, Inc. 4/23/14 1420

Signature: _____ Print Name: _____ Company: _____ Date/Time: _____

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedar B-Brass P-Plastic OT-Other

Company: KMEP Harbor Island
 Attn: Robert Powell
 Address: Robert Powell
 City, State, Zip: _____
 Phone Number: _____
 Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95627
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 702-281-4848
 Phone: 714-366-2901

11089

Consultant/Client Info: ARRADIS
1100 Olive Way
Seattle, WA
 Job # _____
 Job Name: Annual GUM
 P.O. # _____
 Report Attention/Project Manager: Grant Sprick
Grant Sprick @ Arradis.us
 Name: _____
 Email Address: _____
 Phone #: _____
 Cell #: _____
 Global ID: _____
 Data Validation Level: _____
 EDO Required? Yes / No _____
 EDF Required? Yes / No _____

QC Deliverable Info: _____

Time Sampled (HH:MM)	Date	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested	Remarks
1400	4/1/12	AQ	ARCH140423R1-01	MW-32	10	N	10	GRO/PH (UNTYPH-6x) DRO/HO (UNTYPH-Dx) Total Lead 603 BTIEX (82603) Dissolved Lead Nitrate/Sulfate (300.0) Sulfide (4500-S-D) Ferrous Iron (SMCSO-FER) Methane (RSE-175)	
1430	4/1/12	AQ		MW-32	10	N	10		
1530	04/12	AQ		MW-6	10	N	11		
1545	04/12	AQ		A-27	10	N	11		
1630	4/12	AQ		A-28R	10	N	12		
1326	04/12	AQ		A-25R	10	N	12		
1530	04/12	AQ		MW-16	10	N	6		
1500	04/12	AQ		MW-13	10	N	3		

ADDITIONAL INSTRUCTIONS: DRO + HO with silica gel cleanup
Tetral and Dissolved Lead by 200.8
Lab filters Dissolved Lead
Match Billions Interfered with other
COCs corresponding to P.O. WAD00304, 2014, 00003

(field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: _____ Date: 04-22-14 Time: 1700
 Relinquished by: AUS Date: _____ Time: _____
 Received by: _____ Date: 4/23/14 Time: 1910
 Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

*Key: AQ - Aqueous W/A - Waste OT - Other ** L - Lifer V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other
 Relinquished by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-24				
Lab ID : ARC14042423-08A Nitrate (NO3) - N	0.95	0.25 mg/L	04/24/14 13:20	04/24/14 16:21
Date Sampled 04/23/14 09:40 Sulfate (SO4)	2.3	0.50 mg/L	04/24/14 13:20	04/24/14 16:21
Client ID: MW-23				
Lab ID : ARC14042423-09A Nitrate (NO3) - N	ND	0.25 mg/L	04/24/14 13:20	04/24/14 16:40
Date Sampled 04/23/14 10:30 Sulfate (SO4)	470	50 mg/L	04/24/14 13:20	04/24/14 16:40
Client ID: A-21				
Lab ID : ARC14042423-11A Nitrate (NO3) - N	ND	0.25 mg/L	04/24/14 13:20	04/24/14 16:58
Date Sampled 04/23/14 11:20 Sulfate (SO4)	250	50 mg/L	04/24/14 13:20	04/24/14 16:58

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/7/14

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Iron by Spectrophotometer SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-24 Lab ID : ARC14042423-08A Iron, Ferrous (+2) Date Sampled 04/23/14 09:40	52	1.0 mg/L	04/24/14	04/24/14
Client ID: MW-23 Lab ID : ARC14042423-09A Iron, Ferrous (+2) Date Sampled 04/23/14 10:30	23	0.50 mg/L	04/24/14	04/24/14
Client ID: A-21 Lab ID : ARC14042423-11A Iron, Ferrous (+2) Date Sampled 04/23/14 11:20	0.62	0.050 mg/L	04/24/14	04/24/14

Ferrous iron samples were color developed promptly after laboratory login.



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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✓
5/7/14
Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Metals by ICPMS EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-3 Lab ID : ARC14042423-02A Lead (Pb) Date Sampled 04/22/14 17:45	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: A-14R Lab ID : ARC14042423-03A Lead (Pb) Date Sampled 04/23/14 11:35	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-25 Lab ID : ARC14042423-05A Lead (Pb) Date Sampled 04/23/14 12:30	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-1 Lab ID : ARC14042423-06A Lead (Pb) Date Sampled 04/23/14 14:50	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: SN-02R Lab ID : ARC14042423-07A Lead (Pb) Date Sampled 04/23/14 15:45	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-24 Lab ID : ARC14042423-08A Lead (Pb) Date Sampled 04/23/14 09:40	0.0085	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-23 Lab ID : ARC14042423-09A Lead (Pb) Date Sampled 04/23/14 10:30	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: A-21 Lab ID : ARC14042423-11A Lead (Pb) Date Sampled 04/23/14 11:20	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-07R Lab ID : ARC14042423-15A Lead (Pb) Date Sampled 04/23/14 17:00	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-12R Lab ID : ARC14042423-16A Lead (Pb) Date Sampled 04/23/14 16:35	ND	0.0050 mg/L	05/02/14	05/02/14



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ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/7/14

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Dissolved Gases
Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-24				
Lab ID: ARC14042423-08A Methane	13	0.010 mg/L	04/29/14	04/29/14
Date Sampled 04/23/14 09:40				
Client ID: MW-23				
Lab ID: ARC14042423-09A Methane	3.1	0.010 mg/L	04/29/14	04/29/14
Date Sampled 04/23/14 10:30				
Client ID: A-21				
Lab ID: ARC14042423-11A Methane	0.013	0.010 mg/L	04/29/14	04/29/14
Date Sampled 04/23/14 11:20				



Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/7/14
Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SN-02R Lab ID : ARC14042423-07A Sulfide Date Sampled 04/23/14 15:45	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-24 Lab ID : ARC14042423-08A Sulfide Date Sampled 04/23/14 09:40	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-23 Lab ID : ARC14042423-09A Sulfide Date Sampled 04/23/14 10:30	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: A-21 Lab ID : ARC14042423-11A Sulfide Date Sampled 04/23/14 11:20	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-07R Lab ID : ARC14042423-15A Sulfide Date Sampled 04/23/14 17:00	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-12R Lab ID : ARC14042423-16A Sulfide Date Sampled 04/23/14 16:35	ND	0.10 mg/L	04/28/14	04/28/14

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
 Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
 Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/7/14

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Northwest Total Petroleum Hydrocarbons - Diesel Extended (NWTPH-Dx)
Northwest Total Petroleum Hydrocarbons - Gasoline Extended (NWTPH-Gx)

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	MW-20				
Lab ID :	ARC14042423-01A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14
Date Sampled	04/22/14 17:10	TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	82	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14
		Surr: Toluene-d8	100	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14
Client ID :	MW-3				
Lab ID :	ARC14042423-02A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14
Date Sampled	04/22/14 17:45	TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	76	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14
		Surr: Toluene-d8	99	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14
Client ID :	A-14R				
Lab ID :	ARC14042423-03A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14
Date Sampled	04/23/14 11:35	TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	89	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14
Client ID :	A-5				
Lab ID :	ARC14042423-04A	TPH-P (GRO)	0.60	0.25 mg/L	04/25/14
Date Sampled	04/23/14 13:20	Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC	04/25/14
		Surr: Toluene-d8	95	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14
Client ID :	MW-25				
Lab ID :	ARC14042423-05A	TPH-E (DRO), Silica Gel	0.25	0.25 mg/L	04/24/14
Date Sampled	04/23/14 12:30	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14
		Surr: Nonane, Silica Gel	86	(53-145) %REC	04/24/14
		TPH-E (DRO)	0.65	0.25 mg/L	04/24/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	86	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/25/14



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Client ID :	MW-1					
Lab ID :	ARC14042423-06A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 14:50	TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	95	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	119	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14	04/25/14
Client ID :	SN-02R					
Lab ID :	ARC14042423-07A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 15:45	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	92	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	0.28	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	85	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	92	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14	04/25/14
Client ID :	MW-24					
Lab ID :	ARC14042423-08A	TPH-P (GRO)	23	5.0 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 09:40	Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	101	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	04/25/14	04/25/14
Client ID :	MW-23					
Lab ID :	ARC14042423-09A	TPH-P (GRO)	1.7	0.25 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 10:30	Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	93	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	04/25/14	04/25/14
Client ID :	Dup-2					
Lab ID :	ARC14042423-10A	TPH-P (GRO)	24	5.0 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 00:00	Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14	04/25/14
Client ID :	A-21					
Lab ID :	ARC14042423-11A	TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 11:20	Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	91	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	04/25/14	04/25/14
Client ID :	A-10					
Lab ID :	ARC14042423-12A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 12:30	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	88	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	0.27	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	89	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	96	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	04/25/14	04/25/14



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Client ID : A-8

Lab ID :	ARC14042423-13A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 13:45	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	108	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	1.5	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	108	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	97	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-4

Lab ID :	ARC14042423-14A	TPH-E (DRO), Silica Gel	1.7	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 16:15	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	104	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	5.3	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	0.90	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	104	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-07R

Lab ID :	ARC14042423-15A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 17:00	TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	91	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	99	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-12R

Lab ID :	ARC14042423-16A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 16:35	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	89	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	0.49	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	92	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14	04/25/14

Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
Oil Range Organics (ORO) C22-C40+
ND = Not Detected



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5/7/14
Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : MW-20					
Lab ID : ARC14042423-01A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled 04/22/14 17:10	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
	Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
	Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
	Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14	04/25/14
	Surr: Toluene-d8	100	(70-130) %REC	04/25/14	04/25/14
	Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14
Client ID : MW-3					
Lab ID : ARC14042423-02A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled 04/22/14 17:45	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
	Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
	Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
	Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14	04/25/14
	Surr: Toluene-d8	99	(70-130) %REC	04/25/14	04/25/14
	Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14
Client ID : A-14R					
Lab ID : ARC14042423-03A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled 04/23/14 11:35	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
	Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
	Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
	Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14	04/25/14
	Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
	Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14
Client ID : A-5					
Lab ID : ARC14042423-04A	Benzene	25	0.50 µg/L	04/25/14	04/25/14
Date Sampled 04/23/14 13:20	Toluene	1.5	0.50 µg/L	04/25/14	04/25/14
	Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
	Xylenes, Total	1.1	0.50 µg/L	04/25/14	04/25/14
	Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC	04/25/14	04/25/14
	Surr: Toluene-d8	95	(70-130) %REC	04/25/14	04/25/14
	Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14
Client ID : MW-25					
Lab ID : ARC14042423-05A	Benzene	1.4	0.50 µg/L	04/25/14	04/25/14
Date Sampled 04/23/14 12:30	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
	Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
	Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
	Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14	04/25/14
	Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
	Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/25/14	04/25/14



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Client ID : MW-1					
Lab ID :	ARC14042423-06A	Benzene	ND	0.50 µg/L	04/25/14 04/25/14
Date Sampled	04/23/14 14:50	Toluene	ND	0.50 µg/L	04/25/14 04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14 04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14 04/25/14
		Surr: 1,2-Dichloroethane-d4	119	(70-130) %REC	04/25/14 04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14 04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14 04/25/14
Client ID : SN-02R					
Lab ID :	ARC14042423-07A	Benzene	ND	0.50 µg/L	04/25/14 04/25/14
Date Sampled	04/23/14 15:45	Toluene	ND	0.50 µg/L	04/25/14 04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14 04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14 04/25/14
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	04/25/14 04/25/14
		Surr: Toluene-d8	92	(70-130) %REC	04/25/14 04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14 04/25/14
Client ID : MW-24					
Lab ID :	ARC14042423-08A	Benzene	1,000	25 µg/L	04/25/14 04/25/14
Date Sampled	04/23/14 09:40	Toluene	51	25 µg/L	04/25/14 04/25/14
		Ethylbenzene	1,700	25 µg/L	04/25/14 04/25/14
		Xylenes, Total	3,600	25 µg/L	04/25/14 04/25/14
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14 04/25/14
		Surr: Toluene-d8	101	(70-130) %REC	04/25/14 04/25/14
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	04/25/14 04/25/14
Client ID : MW-23					
Lab ID :	ARC14042423-09A	Benzene	39	1.0 µg/L	04/25/14 04/25/14
Date Sampled	04/23/14 10:30	Toluene	ND	V 1.0 µg/L	04/25/14 04/25/14
		Ethylbenzene	ND	V 1.0 µg/L	04/25/14 04/25/14
		Xylenes, Total	2.6	1.0 µg/L	04/25/14 04/25/14
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14 04/25/14
		Surr: Toluene-d8	93	(70-130) %REC	04/25/14 04/25/14
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	04/25/14 04/25/14
Client ID : Dup-2					
Lab ID :	ARC14042423-10A	Benzene	1,000	25 µg/L	04/25/14 04/25/14
Date Sampled	04/23/14 00:00	Toluene	48	25 µg/L	04/25/14 04/25/14
		Ethylbenzene	1,700	25 µg/L	04/25/14 04/25/14
		Xylenes, Total	3,700	25 µg/L	04/25/14 04/25/14
		Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14 04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14 04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14 04/25/14
Client ID : A-21					
Lab ID :	ARC14042423-11A	Benzene	ND	0.50 µg/L	04/25/14 04/25/14
Date Sampled	04/23/14 11:20	Toluene	ND	0.50 µg/L	04/25/14 04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14 04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14 04/25/14
		Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14 04/25/14
		Surr: Toluene-d8	91	(70-130) %REC	04/25/14 04/25/14
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	04/25/14 04/25/14



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Client ID : A-10

Lab ID :	ARC14042423-12A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 12:30	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	96	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	04/25/14	04/25/14

Client ID : A-8

Lab ID :	ARC14042423-13A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 13:45	Toluene	0.61	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	97	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-4

Lab ID :	ARC14042423-14A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 16:15	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-07R

Lab ID :	ARC14042423-15A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 17:00	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	99	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-12R

Lab ID :	ARC14042423-16A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 16:35	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14	04/25/14

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
 Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/7/14

Report Date



Alpha Analytical, Inc.

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VOC Sample Preservation Report

Work Order: ARC14042423

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14042423-01A	MW-20	Aqueous	2
14042423-02A	MW-3	Aqueous	2
14042423-03A	A-14R	Aqueous	2
14042423-04A	A-5	Aqueous	2
14042423-05A	MW-25	Aqueous	2
14042423-06A	MW-1	Aqueous	2
14042423-07A	SN-02R	Aqueous	2
14042423-08A	MW-24	Aqueous	2
14042423-09A	MW-23	Aqueous	2
14042423-10A	Dup-2	Aqueous	2
14042423-11A	A-21	Aqueous	2
14042423-12A	A-10	Aqueous	2
14042423-13A	A-8	Aqueous	2
14042423-14A	MW-4	Aqueous	2
14042423-15A	MW-07R	Aqueous	2
14042423-16A	MW-12R	Aqueous	2

5/7/14

Report Date



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Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Type MBLK Test Code: EPA Method 300.0

File ID: 31

Batch ID: 32798

Analysis Date: 04/24/2014 13:35

Sample ID: MB-32798

Units : mg/L

Run ID: IC_1_140424A

Prep Date: 04/24/2014 13:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	ND	0.25								
Sulfate (SO4)	ND	0.5								

Laboratory Fortified Blank

Type LFB Test Code: EPA Method 300.0

File ID: 32

Batch ID: 32798

Analysis Date: 04/24/2014 13:53

Sample ID: LFB-32798

Units : mg/L

Run ID: IC_1_140424A

Prep Date: 04/24/2014 13:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	5.46	0.25	5		109	90	110			
Sulfate (SO4)	101	0.5	100		101	90	110			

Sample Matrix Spike

Type LFM Test Code: EPA Method 300.0

File ID: 35

Batch ID: 32798

Analysis Date: 04/24/2014 14:49

Sample ID: 14042302-03ALFM

Units : mg/L

Run ID: IC_1_140424A

Prep Date: 04/24/2014 13:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	32.1	0.63	25	5.384	107	80	120			
Sulfate (SO4)	527	1.3	500	37.5	98	80	120			

Sample Matrix Spike Duplicate

Type LFMD Test Code: EPA Method 300.0

File ID: 36

Batch ID: 32798

Analysis Date: 04/24/2014 15:07

Sample ID: 14042302-03ALFMD

Units : mg/L

Run ID: IC_1_140424A

Prep Date: 04/24/2014 13:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	31.5	0.63	25	5.384	105	80	120	32.06	1.7(15)	
Sulfate (SO4)	520	1.3	500	37.5	96	80	120	527	1.3(15)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
25-Apr-14

QC Summary Report

Work Order:
14042423

Method Blank

File ID:	Type	MBLK	Test Code:	SM3500-Fe B	Batch ID:	W0424FR	Analysis Date:	04/24/2014 00:00		
Sample ID:	MBLK-W0424FR	Units : mg/L	Run ID:	WETLAB_140424A	Prep Date:	04/24/2014 00:00				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM3500-Fe B	Batch ID:	W0424FR	Analysis Date:	04/24/2014 00:00		
Sample ID:	LCS-W0424FR	Units : mg/L	Run ID:	WETLAB_140424A	Prep Date:	04/24/2014 00:00				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.31	0.05	1.5		88	70	130			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM3500-Fe B	Batch ID:	W0424FR	Analysis Date:	04/24/2014 00:00		
Sample ID:	14041801-09AMS	Units : mg/L	Run ID:	WETLAB_140424A	Prep Date:	04/24/2014 00:00				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.9	0.05	1.5	0.415	99	66	130			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM3500-Fe B	Batch ID:	W0424FR	Analysis Date:	04/24/2014 00:00		
Sample ID:	14041801-09AMSD	Units : mg/L	Run ID:	WETLAB_140424A	Prep Date:	04/24/2014 00:00				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.9	0.05	1.5	0.415	99	66	130	1.901	0.2(20)	

Comments:

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Date:
06-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	ND	0.005								

Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.26	0.005	0.25		104	80	120			

Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.259	0.005	0.25	0	104	75	125			

Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.259	0.005	0.25	0	104	75	125	0.2592	0.1(20)	

Comments:

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Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Type **MBLK** Test Code: **Modified Method RSK-175 GC/FID**

File ID:				Batch ID: 32816		Analysis Date: 04/29/2014 16:18					
Sample ID:	MBLK-32816	Units : mg/L		Run ID: FID_6_140429A		Prep Date: 04/29/2014 14:34					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane		ND	0.01								

Laboratory Control Spike

Type **LCS** Test Code: **Modified Method RSK-175 GC/FID**

File ID:				Batch ID: 32816		Analysis Date: 04/29/2014 16:37					
Sample ID:	LCS-32816	Units : mg/L		Run ID: FID_6_140429A		Prep Date: 04/29/2014 14:34					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane		0.344	0.01	0.452		76	54	138			

Sample Matrix Spike

Type **MS** Test Code: **Modified Method RSK-175 GC/FID**

File ID:				Batch ID: 32816		Analysis Date: 04/29/2014 19:36					
Sample ID:	14042423-09AMS	Units : mg/L		Run ID: FID_6_140429A		Prep Date: 04/29/2014 14:34					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane		4.96	0.01	1.81	3.114	102	43	138			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **Modified Method RSK-175 GC/FID**

File ID:				Batch ID: 32816		Analysis Date: 04/29/2014 19:57					
Sample ID:	14042423-09AMSD	Units : mg/L		Run ID: FID_6_140429A		Prep Date: 04/29/2014 14:34					
Analyte		Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane		6.23	0.01	1.81	3.114	172	43	138	4.958	22.7(27)	M1

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.



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Date:
29-Apr-14

QC Summary Report

Work Order:
14042423

Method Blank

File ID:	Type	MBLK	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	MBLK-W0428SU	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND		0.1							

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	LCS-W0428SU	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.982	0.1	1		98	60	140			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	14042320-02AMS	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.01	0.1	1		0	101	51	144		

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	14042320-02AMSD	Units :	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.02	0.1	1		0	102	51	144	1.006	1.5(20)

Comments:

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Date:
28-Apr-14

QC Summary Report

Work Order:
14042423

Method Blank

File ID: 7A04241405.D

Sample ID: MBLK-32796

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.25								
TPH-E (ORO)	ND	0.5								
Surr: Nonane	0.151		0.15		101	53	145			

Laboratory Control Spike

File ID: 7A04241406.D

Sample ID: LCS-32796

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.49	0.05	2.5		99.7	70	130			
Surr: Nonane	0.153		0.15		102	53	145			

Sample Matrix Spike

File ID: 7A04241420.D

Sample ID: 14042321-07AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.43	0.05	2.5	0	97	51	151			
Surr: Nonane	0.127		0.15		85	53	145			

Sample Matrix Spike Duplicate

File ID: 7A04241421.D

Sample ID: 14042321-07AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.58	0.05	2.5	0	103	51	151	2.428	5.9(40)	
Surr: Nonane	0.124		0.15		83	53	145			

Comments:

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Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Type MBLK Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042505.D

Batch ID: MS10W0425B

Analysis Date: 04/25/2014 12:49

Sample ID: MBLK MS10W0425B

Units : mg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 12:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.25								
Surr: 1,2-Dichloroethane-d4	0.0114		0.01		114	70	130			
Surr: Toluene-d8	0.00991		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00957		0.01		96	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042503.D

Batch ID: MS10W0425B

Analysis Date: 04/25/2014 11:31

Sample ID: GLCS MS10W0425B

Units : mg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 11:31

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.411	0.05	0.4		103	70	130			
Surr: 1,2-Dichloroethane-d4	0.0114		0.01		114	70	130			
Surr: Toluene-d8	0.00902		0.01		90	70	130			
Surr: 4-Bromofluorobenzene	0.00961		0.01		96	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042517.D

Batch ID: MS10W0425B

Analysis Date: 04/25/2014 17:06

Sample ID: 14042423-01AGS

Units : mg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 17:06

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.23	0.25	2	0	112	54	143			
Surr: 1,2-Dichloroethane-d4	0.0576		0.05		115	70	130			
Surr: Toluene-d8	0.0457		0.05		91	70	130			
Surr: 4-Bromofluorobenzene	0.0461		0.05		92	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042518.D

Batch ID: MS10W0425B

Analysis Date: 04/25/2014 17:28

Sample ID: 14042423-01AGSD

Units : mg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 17:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.22	0.25	2	0	111	54	143	2.234	0.8(23)	
Surr: 1,2-Dichloroethane-d4	0.0554		0.05		111	70	130			
Surr: Toluene-d8	0.0457		0.05		91	70	130			
Surr: 4-Bromofluorobenzene	0.0481		0.05		96	70	130			

Comments:

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Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042505.D

Batch ID: MS10W0425A

Analysis Date: 04/25/2014 12:49

Sample ID: MBLK MS10W0425A

Units: µg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 12:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.4		10		114	70	130			
Surr: Toluene-d8	9.91		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042502.D

Batch ID: MS10W0425A

Analysis Date: 04/25/2014 11:09

Sample ID: LCS MS10W0425A

Units: µg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 11:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.46	0.5	10		95	70	130			
Toluene	9.28	0.5	10		93	80	120			
Ethylbenzene	9.58	0.5	10		96	80	120			
Xylenes, Total	19	0.5	20		95	70	130			
Surr: 1,2-Dichloroethane-d4	11.7		10		117	70	130			
Surr: Toluene-d8	9.47		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.56		10		96	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042515.D

Batch ID: MS10W0425A

Analysis Date: 04/25/2014 16:23

Sample ID: 14042402-01AMS

Units: µg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 16:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	48.9	1.3	50	0	98	67	134			
Toluene	48.1	1.3	50	0	96	38	130			
Ethylbenzene	49.3	1.3	50	0	99	70	130			
Xylenes, Total	97.5	1.3	100	0	97	70	130			
Surr: 1,2-Dichloroethane-d4	59		50		118	70	130			
Surr: Toluene-d8	46.9		50		94	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140425\14042516.D

Batch ID: MS10W0425A

Analysis Date: 04/25/2014 16:45

Sample ID: 14042402-01AMSD

Units: µg/L

Run ID: MSD_10_140425A

Prep Date: 04/25/2014 16:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	48	1.3	50	0	96	67	134	48.89	1.9(21)	
Toluene	46.5	1.3	50	0	93	38	130	48.07	3.3(20)	
Ethylbenzene	47.7	1.3	50	0	95	70	130	49.29	3.4(20)	
Xylenes, Total	94.5	1.3	100	0	94	70	130	97.48	3.2(22)	
Surr: 1,2-Dichloroethane-d4	57.7		50		115	70	130			
Surr: Toluene-d8	46.9		50		94	70	130			
Surr: 4-Bromofluorobenzene	47.7		50		95	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042423
Report Due By : 5:00 PM On : 08-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No
Sampled by : Rory G. Henneck

Client's COC # : 11087, 16487 **Job :** WA000804.2014.00001/KMEP Harbor Island GWM
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
COoler Temp **Samples Received** **Date Printed**
 1 °C 24-Apr-14 24-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub	TAT	Requested Tests						Sample Remarks		
						300_0_W	3500FE_20_S_W	METALS_A_Q	METHANE_W	SULFIDE_W	TPHE_SG_W		TPHE_W	TPHP_W
ARC14042423-01A	MW-20	AQ 04/22/14 17:10	6	0	10									Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-02A	MW-3	AQ 04/22/14 17:45	7	0	10									Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-03A	A-14R	AQ 04/23/14 11:35	7	0	10									Analyze Silica Gel only on hits.
ARC14042423-04A	A-5	AQ 04/23/14 13:20	3	0	10									
ARC14042423-05A	MW-25	AQ 04/23/14 12:30	7	0	10									HNO3 poly received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-06A	MW-1	AQ 04/23/14 14:50	7	0	10									Analyze Silica Gel only on hits.
ARC14042423-07A	SN-02R	AQ 04/23/14 15:45	8	0	10									Bottles received labeled MW-4, matched up by sampling time and logged in per client COC. Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan.

Logged in by: K. Henneck **Signature** K. Henneck **Print Name** K. Henneck **Company** Alpha Analytical, Inc. **Date/Time** 4/24/14 1035

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042423
Report Due By : 5:00 PM On : 08-May-14

Client:

Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention

Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

Phone Number

Email Address

EDD Required : No

Sampled by : Rory G. Henneck

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : 11087, 16487

Job : WA000804.2014.00001/KMEP Harbor Island GWM

1 °C

24-Apr-14

24-Apr-14

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests							Sample Remarks						
						300_0_W	3500FE_20_S_W	METALS_A_Q	METHANE_W	SULFIDE_W	TPHE_SG_W	TPHE_W		TPHP_W					
ARC14042423-08A	MMW-24	04/23/14 09:40	11	0	10	NO3, SO4	FE+2	Pb	CH4	Sulfide									
ARC14042423-09A	MMW-23	04/23/14 10:30	11	0	10	NO3, SO4	FE+2	Pb	CH4	Sulfide									
ARC14042423-10A	Dup-2	04/23/14 00:00	3	0	10														
ARC14042423-11A	A-21	04/23/14 11:20	11	0	10	NO3, SO4	FE+2	Pb	CH4	Sulfide									
ARC14042423-12A	A-10	04/23/14 12:30	6	0	10														
ARC14042423-13A	A-8	04/23/14 13:45	6	0	10														
ARC14042423-14A	MMW-4	04/23/14 16:15	6	0	10														
ARC14042423-15A	MMW-07R	04/23/14 17:00	8	0	10			Pb		Sulfide									
ARC14042423-16A	MMW-12R	04/23/14 16:35	8	0	10			Pb		Sulfide									

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan. :

Logged in by: K Henneck Signature K Henneck Print Name K Henneck Company Alpha Analytical, Inc. Date/Time 4/24/14 10:35

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orto T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042423
Report Due By : 5:00 PM On : 08-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Henneck

Client's COC # : 11087, 16487
 Job : WA000804.2014.000071/KMEP Harbor Island GWM

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
 1 °C 24-Apr-14 24-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests	Sample Remarks
			Alpha	Sub TAT		
ARC14042423-01A	NW-20	AQ 04/22/14 17:10	6	0 10	VOC_W	Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-02A	NW-3	AQ 04/22/14 17:45	7	0 10	BTXE_C	Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-03A	A-14R	AQ 04/23/14 11:35	7	0 10	BTXE_C	Analyze Silica Gel only on hits.
ARC14042423-04A	A-5	AQ 04/23/14 13:20	3	0 10	BTXE_C	
ARC14042423-05A	NW-25	AQ 04/23/14 12:30	7	0 10	BTXE_C	HNO3 poly received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-06A	NW-1	AQ 04/23/14 14:50	7	0 10	BTXE_C	Analyze Silica Gel only on hits.
ARC14042423-07A	SN-02R	AQ 04/23/14 15:45	8	0 10	BTXE_C	Bottles received labeled MW-4, matched up by sampling time and logged in per client COC. Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan.

Logged in by: K Henneck Signature: _____ Print Name: _____ Company: Alpha Analytical, Inc. Date/Time: 4/24/14 1035

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042423
Report Due By : 5:00 PM On : 08-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Henneck

Client's COC # : 11087, 16487 Job : WA000804.2014.00001/KMEP Harbor Island GWM
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
 Cooler Temp Samples Received Date Printed
 1 °C 24-Apr-14 24-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests	Sample Remarks
			Alpha	Sub TAT		
ARC14042423-08A	MW-24	AQ 04/23/14 09:40	11	0	10	BTXE_C
ARC14042423-09A	MW-23	AQ 04/23/14 10:30	11	0	10	BTXE_C
ARC14042423-10A	Dup-2	AQ 04/23/14 00:00	3	0	10	BTXE_C
ARC14042423-11A	A-21	AQ 04/23/14 11:20	11	0	10	BTXE_C
ARC14042423-12A	A-10	AQ 04/23/14 12:30	6	0	10	BTXE_C
ARC14042423-13A	A-8	AQ 04/23/14 13:45	6	0	10	BTXE_C
ARC14042423-14A	MW-4	AQ 04/23/14 16:15	6	0	10	BTXE_C
ARC14042423-15A	MW-07R	AQ 04/23/14 17:00	8	0	10	BTXE_C
ARC14042423-16A	MW-12R	AQ 04/23/14 16:35	8	0	10	BTXE_C

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan.

Logged in by: K Henneck K Henneck Alpha Analytical, Inc. 4/24/14 10:35

Signature: _____ Print Name: _____ Company: _____ Date/Time: _____

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Company: Kinder Morgan
Address: Kaiser Trussing
City, State, Zip: _____
Phone Number: _____ Fax: _____



Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
Southern NV: 8255 McLeod Ave, Suite 24, Las Vegas, NV 89120
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90748

Phone: 775-355-1044
Fax: 775-355-0406
Phone: 916-386-9089
Phone: 702-281-4848
Phone: 714-386-2901

Page # 1 of 2
11087

Consultant/ Client Info:

Company: ARCADIS
Address: 1100 Glenn Way #350
City, State, Zip: Seattle WA

Job and Purchase Order Info:

Job #: _____
Job Name: WATER QUALITY CONC
P.O. #: _____
Name: WAB Henderson
Email Address: _____
Phone #: _____
Cell #: _____

Report Attention/Project Manager:

Name: Jonathan Elmquist
Email Address: Jonathan.Elmquist@Arcadis.com
Phone #: 206-726-4712

QC Deliverable Info:

EDD Required? Yes / No
EDF Required? Yes / No
Global ID: _____
Data Validation Level: _____

Samples Collected from which States? (circle one) AZ CA NV WA ID OR DOD Site Other

Time Sampled (M/D/Y)	Date	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAI	Field Filtered?	# Containers** (See Key Below)	Analysis Requested	Remarks
11/2	4/22	AQ	ARC14042423-01	MW-30	10	N	7	TPH-GRO (NUTPH-GW) BTEX (8200B) TPH-DTG/100 (NUTPH-Dx) Total Lead (SW 0020) Diss. Lead (SW 0020) Nitrate/Sulfate (300) Sulfide (4500-5-D) Ferrous Iron (SM 200-FEB) Methane (ASR-175)	
11/5	4/23	AQ		MW-3	10	N	7		
11/35	4/13	AQ		MW-3	10	N	7		
12/23	4/13	AQ		MW-3	10	N	3		
12/30	4/23	AQ		MW-15	10	N	7		
14/50	4/23	AQ		MW-1	10	N	7		
15/45	4/23	AQ		SN-02R	10	N	8		

ADDITIONAL INSTRUCTIONS:

3 coolers, (1 large, 2 small) - COLS only in one cooler

(Field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By:

Ray G Hansen

Relinquished by (Signature/Affiliation):

[Signature]

Date: 4/23/14 Time: 1800

Received by (Signature/Affiliation):

[Signature]

Date: 4/24/14 Time: 1010

Relinquished by (Signature/Affiliation):

Date: _____ Time: _____

Received by (Signature/Affiliation):

Date: _____ Time: _____

*Key:

AQ - Aqueous WA - Waste OT - Other ** L - Liter V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:
 Kinder Imaging an Energy Partners
 Robert Truesdell

 City, State, Zip: _____
 Phone Number: _____
 Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Phone: 775-355-1044
 Fax: 775-355-0406
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Phone: 916-366-9089
 Phone: 714-386-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

Page # 2 of 2

Company: _____
Address: _____
City, State, Zip: _____
Phone Number: _____
Fax: _____

Consultant/Client Info:
 ARADITS
 1100 Olive Way #800
 Seattle, WA
 Job #: _____
 Job Name: _____
 P.O. #: _____

Job and Purchase Order Info:
 WAC0804, 0814, 0821
 Palmer Island Green
 Name: _____
 Email Address: _____
 Phone #: _____
 Cell #: _____

Report Attention/Project Manager: Jonathan Flannery
 EDD Required? Yes / No
 QC Deliverable Info:
 EDF Required? Yes / No
 Global ID: _____
 Data Validation Packages: _____
 III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR **WA** DOD Site Other

Time Sampled (M/D/Y)	Date (M/D/Y)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?		TPH-GRO (KWTPH-G _x)	TPH-DRO/AC (KWTPH-D _x)	BTEX (8260 B)	Total lead (SW6000)	Diss lead (SW6000)	Nitrate/sulfate (360.c)	Sulfide (4500-S-D)	Ferrous Iron (512500-Fe)	Methane (RSL-175)	Remarks
							Yes	No										
0740	4/23	AQ	ARC14092423-08	MW-24	10	11	X	X	X	X	X	X	X	X	X	X	X	
0920	4/23	AQ		MW-23	10	11	X	X	X	X	X	X	X	X	X	X	X	
	4/23	AQ		Dug-2	10	3	X	X	X	X	X	X	X	X	X	X	X	
1120	4/23	AQ		A-21	10	16	X	X	X	X	X	X	X	X	X	X	X	
1220	4/23	AQ		A-1D	10	6	X	X	X	X	X	X	X	X	X	X	X	
1345	4/23	AQ		A-8	10	6	X	X	X	X	X	X	X	X	X	X	X	
1415	4/23	AQ		MW-4	10	6	X	X	X	X	X	X	X	X	X	X	X	
1700	4/23	AQ		MW-57R	10	8	X	X	X	X	X	X	X	X	X	X	X	
1635	4/23	AQ		MW-12R	10	8	X	X	X	X	X	X	X	X	X	X	X	

3 colors (1 large, 2 small) - COCs only in one cooler

ADDITIONAL INSTRUCTIONS: _____

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: _____ Date: 4/23/14 Time: 1800
 Relinquished By: _____ Date: 4/23/14 Time: _____
 Relinquished By: _____ Date: _____ Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil **L - Lier V - VOA S-Soil Jar O - Orto T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Anions by IC
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-24				
Lab ID: ARC14042423-08A Nitrate (NO3) - N	0.95	0.25 mg/L	04/24/14 13:20	04/24/14 16:21
Date Sampled 04/23/14 09:40 Sulfate (SO4)	2.3	0.50 mg/L	04/24/14 13:20	04/24/14 16:21
Client ID: MW-23				
Lab ID: ARC14042423-09A Nitrate (NO3) - N	ND	0.25 mg/L	04/24/14 13:20	04/24/14 16:40
Date Sampled 04/23/14 10:30 Sulfate (SO4)	470	50 mg/L	04/24/14 13:20	04/24/14 16:40
Client ID: A-21				
Lab ID: ARC14042423-11A Nitrate (NO3) - N	ND	0.25 mg/L	04/24/14 13:20	04/24/14 16:58
Date Sampled 04/23/14 11:20 Sulfate (SO4)	250	50 mg/L	04/24/14 13:20	04/24/14 16:58

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/7/14

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Iron by Spectrophotometer SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-24 Lab ID: ARC14042423-08A Iron, Ferrous (+2) Date Sampled 04/23/14 09:40	52	1.0 mg/L	04/24/14	04/24/14
Client ID: MW-23 Lab ID: ARC14042423-09A Iron, Ferrous (+2) Date Sampled 04/23/14 10:30	23	0.50 mg/L	04/24/14	04/24/14
Client ID: A-21 Lab ID: ARC14042423-11A Iron, Ferrous (+2) Date Sampled 04/23/14 11:20	0.62	0.050 mg/L	04/24/14	04/24/14

Ferrous iron samples were color developed promptly after laboratory login.



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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 Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



✓
5/7/14
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-3 Lab ID: ARC14042423-02A Lead (Pb) Date Sampled 04/22/14 17:45	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: A-14R Lab ID: ARC14042423-03A Lead (Pb) Date Sampled 04/23/14 11:35	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-25 Lab ID: ARC14042423-05A Lead (Pb) Date Sampled 04/23/14 12:30	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-1 Lab ID: ARC14042423-06A Lead (Pb) Date Sampled 04/23/14 14:50	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: SH-02R Lab ID: ARC14042423-07A Lead (Pb) Date Sampled 04/23/14 15:45	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-24 Lab ID: ARC14042423-08A Lead (Pb) Date Sampled 04/23/14 09:40	0.0085	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-23 Lab ID: ARC14042423-09A Lead (Pb) Date Sampled 04/23/14 10:30	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: A-21 Lab ID: ARC14042423-11A Lead (Pb) Date Sampled 04/23/14 11:20	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-07R Lab ID: ARC14042423-15A Lead (Pb) Date Sampled 04/23/14 17:00	ND	0.0050 mg/L	05/02/14	05/02/14
Client ID: MW-12R Lab ID: ARC14042423-16A Lead (Pb) Date Sampled 04/23/14 16:35	ND	0.0050 mg/L	05/02/14	05/02/14



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ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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[Signature]
6/9/14

Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Dissolved Gases
Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-24				
Lab ID: ARC14042423-08A Methane	13	0.010 mg/L	04/29/14	04/29/14
Date Sampled 04/23/14 09:40				
Client ID: MW-23				
Lab ID: ARC14042423-09A Methane	3.1	0.010 mg/L	04/29/14	04/29/14
Date Sampled 04/23/14 10:30				
Client ID: A-21				
Lab ID: ARC14042423-11A Methane	0.013	0.010 mg/L	04/29/14	04/29/14
Date Sampled 04/23/14 11:20				



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SH-02R Lab ID: ARC14042423-07A Sulfide Date Sampled 04/23/14 15:45	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-24 Lab ID: ARC14042423-08A Sulfide Date Sampled 04/23/14 09:40	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-23 Lab ID: ARC14042423-09A Sulfide Date Sampled 04/23/14 10:30	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: A-21 Lab ID: ARC14042423-11A Sulfide Date Sampled 04/23/14 11:20	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-07R Lab ID: ARC14042423-15A Sulfide Date Sampled 04/23/14 17:00	ND	0.10 mg/L	04/28/14	04/28/14
Client ID: MW-12R Lab ID: ARC14042423-16A Sulfide Date Sampled 04/23/14 16:35	ND	0.10 mg/L	04/28/14	04/28/14

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ND = Not Detected



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Northwest Total Petroleum Hydrocarbons - Diesel Extended (NWTPH-Dx)
Northwest Total Petroleum Hydrocarbons - Gasoline Extended (NWTPH-Gx)

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-20					
Lab ID:	ARC14042423-01A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14
Date Sampled	04/22/14 17:10	TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	82	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14
		Surr: Toluene-d8	100	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14
Client ID: MW-3					
Lab ID:	ARC14042423-02A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14
Date Sampled	04/22/14 17:45	TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	76	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14
		Surr: Toluene-d8	99	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14
Client ID: A-14R					
Lab ID:	ARC14042423-03A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14
Date Sampled	04/23/14 11:35	TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	89	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14
Client ID: A-5					
Lab ID:	ARC14042423-04A	TPH-P (GRO)	0.60	0.25 mg/L	04/25/14
Date Sampled	04/23/14 13:20	Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC	04/25/14
		Surr: Toluene-d8	95	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14
Client ID: MW-25					
Lab ID:	ARC14042423-05A	TPH-E (DRO), Silica Gel	0.25	0.25 mg/L	04/24/14
Date Sampled	04/23/14 12:30	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14
		Surr: Nonane, Silica Gel	86	(53-145) %REC	04/24/14
		TPH-E (DRO)	0.65	0.25 mg/L	04/24/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14
		Surr: Nonane	86	(53-145) %REC	04/24/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/25/14



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Client ID : **MW-1**

Lab ID :	ARC14042423-06A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 14:50	TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	95	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	119	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14	04/25/14

Client ID : **SH-02R**

Lab ID :	ARC14042423-07A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 15:45	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	92	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	0.28	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	85	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	92	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14	04/25/14

Client ID : **MW-24**

Lab ID :	ARC14042423-08A	TPH-P (GRO)	23	5.0 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 09:40	Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	101	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	04/25/14	04/25/14

Client ID : **MW-23**

Lab ID :	ARC14042423-09A	TPH-P (GRO)	1.7	0.25 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 10:30	Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	93	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	04/25/14	04/25/14

Client ID : **Dup-2**

Lab ID :	ARC14042423-10A	TPH-P (GRO)	24	5.0 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 00:00	Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14	04/25/14

Client ID : **A-21**

Lab ID :	ARC14042423-11A	TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
Date Sampled	04/23/14 11:20	Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	91	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	04/25/14	04/25/14

Client ID : **A-10**

Lab ID :	ARC14042423-12A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 12:30	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	88	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	0.27	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	89	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	96	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	04/25/14	04/25/14



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Client ID : A-8

Lab ID :	ARC14042423-13A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 13:45	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	108	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	1.5	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	108	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	97	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-4

Lab ID :	ARC14042423-14A	TPH-E (DRO), Silica Gel	1.7	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 16:15	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	104	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	5.3	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	0.90	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	104	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-07R

Lab ID :	ARC14042423-15A	TPH-E (DRO)	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 17:00	TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	91	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	99	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-12R

Lab ID :	ARC14042423-16A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/24/14	04/25/14
Date Sampled	04/23/14 16:35	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane, Silica Gel	89	(53-145) %REC	04/24/14	04/25/14
		TPH-E (DRO)	0.49	0.25 mg/L	04/24/14	04/25/14
		TPH-E (ORO)	ND	0.50 mg/L	04/24/14	04/25/14
		Surr: Nonane	92	(53-145) %REC	04/24/14	04/25/14
		TPH-P (GRO)	ND	0.25 mg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14	04/25/14

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

Oil Range Organics (ORO) C22-C40+

This replaces the report originally signed 5/7/14, due to a change in the Client I.D. for -07A, per client request.

ND = Not Detected



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[Signature]

6/9/14

Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/24/14

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	MW-20					
Lab ID :	ARC14042423-01A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/22/14 17:10	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	100	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14
Client ID :	MW-3					
Lab ID :	ARC14042423-02A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/22/14 17:45	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	115	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	99	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14
Client ID :	A-14R					
Lab ID :	ARC14042423-03A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 11:35	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14
Client ID :	A-5					
Lab ID :	ARC14042423-04A	Benzene	25	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 13:20	Toluene	1.5	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	1.1	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	95	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14
Client ID :	MW-25					
Lab ID :	ARC14042423-05A	Benzene	1.4	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 12:30	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	04/25/14	04/25/14



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Client ID: **MW-1**

Lab ID:	ARC14042423-06A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 14:50	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	119	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14	04/25/14

Client ID: **SH-02R**

Lab ID:	ARC14042423-07A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 15:45	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	92	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	04/25/14	04/25/14

Client ID: **MW-24**

Lab ID:	ARC14042423-08A	Benzene	1,000	25 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 09:40	Toluene	51	25 µg/L	04/25/14	04/25/14
		Ethylbenzene	1,700	25 µg/L	04/25/14	04/25/14
		Xylenes, Total	3,600	25 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	101	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	98	(70-130) %REC	04/25/14	04/25/14

Client ID: **MW-23**

Lab ID:	ARC14042423-09A	Benzene	39	1.0 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 10:30	Toluene	ND	V	1.0 µg/L	04/25/14
		Ethylbenzene	ND	V	1.0 µg/L	04/25/14
		Xylenes, Total	2.6	1.0 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	104	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	93	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	99	(70-130) %REC	04/25/14	04/25/14

Client ID: **Dup-2**

Lab ID:	ARC14042423-10A	Benzene	1,000	25 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 00:00	Toluene	48	25 µg/L	04/25/14	04/25/14
		Ethylbenzene	1,700	25 µg/L	04/25/14	04/25/14
		Xylenes, Total	3,700	25 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	98	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14	04/25/14

Client ID: **A-21**

Lab ID:	ARC14042423-11A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 11:20	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	107	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	91	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	04/25/14	04/25/14



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Client ID : A-10

Lab ID :	ARC14042423-12A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 12:30	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	121	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	96	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	04/25/14	04/25/14

Client ID : A-8

Lab ID :	ARC14042423-13A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 13:45	Toluene	0.61	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	97	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-4

Lab ID :	ARC14042423-14A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 16:15	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	106	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-07R

Lab ID :	ARC14042423-15A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 17:00	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	102	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	99	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	04/25/14	04/25/14

Client ID : MW-12R

Lab ID :	ARC14042423-16A	Benzene	ND	0.50 µg/L	04/25/14	04/25/14
Date Sampled	04/23/14 16:35	Toluene	ND	0.50 µg/L	04/25/14	04/25/14
		Ethylbenzene	ND	0.50 µg/L	04/25/14	04/25/14
		Xylenes, Total	ND	0.50 µg/L	04/25/14	04/25/14
		Surr: 1,2-Dichloroethane-d4	112	(70-130) %REC	04/25/14	04/25/14
		Surr: Toluene-d8	94	(70-130) %REC	04/25/14	04/25/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/25/14	04/25/14

This replaces the report originally signed 5/7/14, due to a change in the Client I.D. for -07A, per client request.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



6/9/14

Report Date



Alpha Analytical, Inc.

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VOC Sample Preservation Report

Work Order: ARC14042423

Job: WA000804.2014.00001/KMEP Harbor Island GWM

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14042423-01A	MW-20	Aqueous	2
14042423-02A	MW-3	Aqueous	2
14042423-03A	A-14R	Aqueous	2
14042423-04A	A-5	Aqueous	2
14042423-05A	MW-25	Aqueous	2
14042423-06A	MW-1	Aqueous	2
14042423-07A	SH-02R	Aqueous	2
14042423-08A	MW-24	Aqueous	2
14042423-09A	MW-23	Aqueous	2
14042423-10A	Dup-2	Aqueous	2
14042423-11A	A-21	Aqueous	2
14042423-12A	A-10	Aqueous	2
14042423-13A	A-8	Aqueous	2
14042423-14A	MW-4	Aqueous	2
14042423-15A	MW-07R	Aqueous	2
14042423-16A	MW-12R	Aqueous	2

This replaces the pH report originally issued 5/7/14, due to a change in the Client I.D. for -07A, per client request.

6/9/14

Report Date

Page 1 of 1



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Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

File ID: 31	Type MBLK	Test Code: EPA Method 300.0	Batch ID: 32798	Analysis Date: 04/24/2014 13:35						
Sample ID: MB-32798	Units : mg/L	Run ID: IC_1_140424A	Prep Date: 04/24/2014 13:20							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	ND	0.25								
Sulfate (SO4)	ND	0.5								

Laboratory Fortified Blank

File ID: 32	Type LFB	Test Code: EPA Method 300.0	Batch ID: 32798	Analysis Date: 04/24/2014 13:53						
Sample ID: LFB-32798	Units : mg/L	Run ID: IC_1_140424A	Prep Date: 04/24/2014 13:20							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	5.46	0.25	5		109	90	110			
Sulfate (SO4)	101	0.5	100		101	90	110			

Sample Matrix Spike

File ID: 35	Type LFM	Test Code: EPA Method 300.0	Batch ID: 32798	Analysis Date: 04/24/2014 14:49						
Sample ID: 14042302-03ALFM	Units : mg/L	Run ID: IC_1_140424A	Prep Date: 04/24/2014 13:20							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	32.1	0.63	25	5.384	107	80	120			
Sulfate (SO4)	527	1.3	500	37.5	98	80	120			

Sample Matrix Spike Duplicate

File ID: 36	Type LFMD	Test Code: EPA Method 300.0	Batch ID: 32798	Analysis Date: 04/24/2014 15:07						
Sample ID: 14042302-03ALFMD	Units : mg/L	Run ID: IC_1_140424A	Prep Date: 04/24/2014 13:20							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	31.5	0.63	25	5.384	105	80	120	32.06	1.7(15)	
Sulfate (SO4)	520	1.3	500	37.5	96	80	120	527	1.3(15)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
25-Apr-14

QC Summary Report

Work Order:
14042423

Method Blank

Type **MBLK** Test Code: **SM3500-Fe B**

File ID:		Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00
Sample ID: MBLK-W0424FR	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Iron, Ferrous (+2)	ND	0.05	

Laboratory Control Spike

Type **LCS** Test Code: **SM3500-Fe B**

File ID:		Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00
Sample ID: LCS-W0424FR	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Iron, Ferrous (+2)	1.31	0.05	1.5 88 70 130

Sample Matrix Spike

Type **MS** Test Code: **SM3500-Fe B**

File ID:		Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00
Sample ID: 14041801-09AMS	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Iron, Ferrous (+2)	1.9	0.05	1.5 0.415 99 66 130

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM3500-Fe B**

File ID:		Batch ID: W0424FR	Analysis Date: 04/24/2014 00:00
Sample ID: 14041801-09AMSD	Units : mg/L	Run ID: WETLAB_140424A	Prep Date: 04/24/2014 00:00
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Iron, Ferrous (+2)	1.9	0.05	1.5 0.415 99 66 130 1.901 0.2(20)

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
06-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Method Blank		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	030_		Batch ID: 32835				Analysis Date: 05/02/2014 12:48			
Sample ID:	MB-32835	Units : mg/L	Run ID: ICP/MS_140502A				Prep Date: 05/02/2014 10:24			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	ND	0.005								

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	039_		Batch ID: 32835				Analysis Date: 05/02/2014 13:17			
Sample ID:	LCS-32835	Units : mg/L	Run ID: ICP/MS_140502A				Prep Date: 05/02/2014 10:24			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.26	0.005	0.25		104	80	120			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	041_		Batch ID: 32835				Analysis Date: 05/02/2014 13:23			
Sample ID:	14050240-01AMS	Units : mg/L	Run ID: ICP/MS_140502A				Prep Date: 05/02/2014 10:24			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.259	0.005	0.25	0	104	75	125			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	042_		Batch ID: 32835				Analysis Date: 05/02/2014 13:26			
Sample ID:	14050240-01AMSD	Units : mg/L	Run ID: ICP/MS_140502A				Prep Date: 05/02/2014 10:24			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Lead (Pb)	0.259	0.005	0.25	0	104	75	125	0.2592	0.1(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

File ID:	Type	MBLK	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 16:18		
Sample ID:	MBLK-32816	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	ND	0.01								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 16:37		
Sample ID:	LCS-32816	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	0.344	0.01	0.452		76	54	138			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 19:36		
Sample ID:	14042423-09AMS	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	4.96	0.01	1.81	3.114	102	43	138			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 19:57		
Sample ID:	14042423-09AMSD	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	6.23	0.01	1.81	3.114	172	43	138	4.958	22.7(27)	M1

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.



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Date:
29-Apr-14

QC Summary Report

Work Order:
14042423

Method Blank

File ID:	Type	MBLK	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	MBLK-W0428SU	Units:	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND		0.1							

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	LCS-W0428SU	Units:	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.982	0.1	1		98	60	140			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	14042320-02AMS	Units:	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.01	0.1	1		0	101	51	144		

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM4500-S D	Batch ID:	W0428SU	Analysis Date:	04/28/2014 00:00		
Sample ID:	14042320-02AMSD	Units:	mg/L	Run ID:	WETLAB_140428D	Prep Date:	04/28/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.02	0.1	1		0	102	51	144	1.006	1.5(20)

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
28-Apr-14

QC Summary Report

Work Order:
14042423

Method Blank

File ID: 7A04241405.D

Sample ID: MBLK-32796

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.25								
TPH-E (ORO)	ND	0.5								
Surr: Nonane	0.151		0.15		101	53	145			

Laboratory Control Spike

File ID: 7A04241406.D

Sample ID: LCS-32796

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.49	0.05	2.5		99.7	70	130			
Surr: Nonane	0.153		0.15		102	53	145			

Sample Matrix Spike

File ID: 7A04241420.D

Sample ID: 14042321-07AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.43	0.05	2.5	0	97	51	151			
Surr: Nonane	0.127		0.15		85	53	145			

Sample Matrix Spike Duplicate

File ID: 7A04241421.D

Sample ID: 14042321-07AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.58	0.05	2.5	0	103	51	151	2.428	5.9(40)	
Surr: Nonane	0.124		0.15		83	53	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: C:\HPCHEM\MMS10\DATA\140425\14042505.D

Batch ID: **MS10W0425B**

Analysis Date: **04/25/2014 12:49**

Sample ID: **MBLK MS10W0425B**

Units: mg/L

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 12:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.25								
Surr: 1,2-Dichloroethane-d4	0.0114		0.01		114	70	130			
Surr: Toluene-d8	0.00991		0.01		99	70	130			
Surr: 4-Bromofluorobenzene	0.00957		0.01		96	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: C:\HPCHEM\MMS10\DATA\140425\14042503.D

Batch ID: **MS10W0425B**

Analysis Date: **04/25/2014 11:31**

Sample ID: **GLCS MS10W0425B**

Units: mg/L

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 11:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.411	0.05	0.4		103	70	130			
Surr: 1,2-Dichloroethane-d4	0.0114		0.01		114	70	130			
Surr: Toluene-d8	0.00902		0.01		90	70	130			
Surr: 4-Bromofluorobenzene	0.00961		0.01		96	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: C:\HPCHEM\MMS10\DATA\140425\14042517.D

Batch ID: **MS10W0425B**

Analysis Date: **04/25/2014 17:06**

Sample ID: **14042423-01AGS**

Units: mg/L

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 17:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.23	0.25	2	0	112	54	143			
Surr: 1,2-Dichloroethane-d4	0.0576		0.05		115	70	130			
Surr: Toluene-d8	0.0457		0.05		91	70	130			
Surr: 4-Bromofluorobenzene	0.0461		0.05		92	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B/C / SW8260B**

File ID: C:\HPCHEM\MMS10\DATA\140425\14042518.D

Batch ID: **MS10W0425B**

Analysis Date: **04/25/2014 17:28**

Sample ID: **14042423-01AGSD**

Units: mg/L

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 17:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.22	0.25	2	0	111	54	143	2.234	0.8(23)	
Surr: 1,2-Dichloroethane-d4	0.0554		0.05		111	70	130			
Surr: Toluene-d8	0.0457		0.05		91	70	130			
Surr: 4-Bromofluorobenzene	0.0481		0.05		96	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
07-May-14

QC Summary Report

Work Order:
14042423

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS10\DATA\140425\14042505.D

Batch ID: **MS10W0425A**

Analysis Date: **04/25/2014 12:49**

Sample ID: **MBLK MS10W0425A**

Units: **µg/L**

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 12:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.4		10		114	70	130			
Surr: Toluene-d8	9.91		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS10\DATA\140425\14042502.D

Batch ID: **MS10W0425A**

Analysis Date: **04/25/2014 11:09**

Sample ID: **LCS MS10W0425A**

Units: **µg/L**

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 11:09**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.46	0.5	10		95	70	130			
Toluene	9.28	0.5	10		93	80	120			
Ethylbenzene	9.58	0.5	10		96	80	120			
Xylenes, Total	19	0.5	20		95	70	130			
Surr: 1,2-Dichloroethane-d4	11.7		10		117	70	130			
Surr: Toluene-d8	9.47		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.56		10		96	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS10\DATA\140425\14042515.D

Batch ID: **MS10W0425A**

Analysis Date: **04/25/2014 16:23**

Sample ID: **14042402-01AMS**

Units: **µg/L**

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 16:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	48.9	1.3	50	0	98	67	134			
Toluene	48.1	1.3	50	0	96	38	130			
Ethylbenzene	49.3	1.3	50	0	99	70	130			
Xylenes, Total	97.5	1.3	100	0	97	70	130			
Surr: 1,2-Dichloroethane-d4	59		50		118	70	130			
Surr: Toluene-d8	46.9		50		94	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS10\DATA\140425\14042516.D

Batch ID: **MS10W0425A**

Analysis Date: **04/25/2014 16:45**

Sample ID: **14042402-01AMSD**

Units: **µg/L**

Run ID: **MSD_10_140425A**

Prep Date: **04/25/2014 16:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	48	1.3	50	0	96	67	134	48.89	1.9(21)	
Toluene	46.5	1.3	50	0	93	38	130	48.07	3.3(20)	
Ethylbenzene	47.7	1.3	50	0	95	70	130	49.29	3.4(20)	
Xylenes, Total	94.5	1.3	100	0	94	70	130	97.48	3.2(22)	
Surr: 1,2-Dichloroethane-d4	57.7		50		115	70	130			
Surr: Toluene-d8	46.9		50		94	70	130			
Surr: 4-Bromofluorobenzene	47.7		50		95	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED
WA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042423
Report Due By : 5:00 PM On : 08-May-14

Client:
Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
Jonathan Flomerfelt (206) 726-4712 jonathan.flomerfelt@arcadis-us.com
Kyle Haslam (206) 726-4753 kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Henneck

PO : **Client's COC # :** 11087, 16487 **Job :** WAA000804.2014.00001/KMEP Harbor Island GWM
QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
1 °C 24-Apr-14 06-Jun-14

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha Sub TAT	Requested Tests							Sample Remarks	
				300_0_W	3500FE_20_S_W	METALS_A_Q	METHANE_W	SULFIDE_W	TPHIE_SG_W	TPHIE_W		TPHIP_W
ARC14042423-08A	MMW-24	AQ 04/23/14 09:40	11 0 10	NO3_S04	FE+2	Pb	CH4	Sulfide			NWTPH-GX	
ARC14042423-09A	MMW-23	AQ 04/23/14 10:30	11 0 10	NO3_S04	FE+2	Pb	CH4	Sulfide			NWTPH-GX	
ARC14042423-10A	Dup-2	AQ 04/23/14 00:00	3 0 10								NWTPH-GX	
ARC14042423-11A	A-21	AQ 04/23/14 11:20	11 0 10	NO3_S04	FE+2	Pb	CH4	Sulfide			NWTPH-GX	
ARC14042423-12A	A-10	AQ 04/23/14 12:30	6 0 10								NWTPH-DX	Analyze Silica Gel only on hits.
ARC14042423-13A	A-8	AQ 04/23/14 13:45	6 0 10								NWTPH-DX	Analyze Silica Gel only on hits.
ARC14042423-14A	MMW-4	AQ 04/23/14 16:15	6 0 10								NWTPH-DX	Analyze Silica Gel only on hits.
ARC14042423-15A	MMW-07R	AQ 04/23/14 17:00	8 0 10			Pb		Sulfide			NWTPH-DX	Analyze Silica Gel only on hits.
ARC14042423-16A	MMW-12R	AQ 04/23/14 16:35	8 0 10			Pb		Sulfide			NWTPH-DX	Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan. Amended. 6/6/14 15:50 to change the sample ID for 07A, per email from Rory.KM.

Logged in by: K Murray Signature: [Signature] Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 6/6/14 15:50

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA AMENDED Page 3 of 4

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

Workorder : **ARCW14042423**
 Report Due By : **5:00 PM On : 08-May-14**

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Henneck

PO :
 Client's COC # : 11087, 16487 Job : WA000804.2014.00001/KMEP Harbor Island GWM Cooler Temp Samples Received Date Printed
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates 1 °C 24-Apr-14 06-Jun-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		TAT	Requested Tests		Sample Remarks
			Alpha	Sub		VOC_W		
ARC14042423-01A	MW-20	AQ 04/22/14 17:10	6	0	10	BTXE_C		Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-02A	MW-3	AQ 04/22/14 17:45	7	0	10	BTXE_C		Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-03A	A-14R	AQ 04/23/14 11:35	7	0	10	BTXE_C		Analyze Silica Gel only on hits.
ARC14042423-04A	A-5	AQ 04/23/14 13:20	3	0	10	BTXE_C		
ARC14042423-05A	MW-25	AQ 04/23/14 12:30	7	0	10	BTXE_C		HNO3 poly received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-06A	MW-1	AQ 04/23/14 14:50	7	0	10	BTXE_C		Analyze Silica Gel only on hits.
ARC14042423-07A	SH-02R	AQ 04/23/14 15:45	8	0	10	BTXE_C		Bottles received labeled MW-4, matched up by sampling time and logged in per client COC. Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan. Amended 6/6/14 15:50 to change the sample ID for 07A, per email from Rory.KM.

Logged in by: K Henneck Signature: _____ Print Name: _____ Company: Alpha Analytical, Inc. Date/Time: 6/6/14 15:50

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED
 WA
 Page: 4 of 4

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : **ARCW14042423**
 Report Due By : **5:00 PM On : 08-May-14**

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Jonathan Flomerfelt** Phone Number **(206) 726-4712 x** Email Address **jonathan.flomerfelt@arcadis-us.com**
Kyle Haslam (206) 726-4753 x **kyle.haslam@arcadis-us.com**

EDD Required : No

Sampled by : Rory G. Henneck

PO : Client's COC # : 11087, 16487 Job : WA000804.2014.00001/KMEP Harbor Island GWM
 QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates
 Cooler Temp **1 °C** Samples Received **24-Apr-14** Date Printed **06-Jun-14**

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles			Requested Tests	Sample Remarks
			Alpha	Sub	TAT		
ARC14042423-08A	MMW-24	AQ 04/23/14 09:40	11	0	10	VOC_W BIXE_C	
ARC14042423-09A	MMW-23	AQ 04/23/14 10:30	11	0	10	BIXE_C	
ARC14042423-10A	Dup-2	AQ 04/23/14 00:00	3	0	10	BIXE_C	
ARC14042423-11A	A-21	AQ 04/23/14 11:20	11	0	10	BIXE_C	
ARC14042423-12A	A-10	AQ 04/23/14 12:30	6	0	10	BIXE_C	Analyze Silica Gel only on hits.
ARC14042423-13A	A-8	AQ 04/23/14 13:45	6	0	10	BIXE_C	Analyze Silica Gel only on hits.
ARC14042423-14A	MMW-4	AQ 04/23/14 16:15	6	0	10	BIXE_C	Analyze Silica Gel only on hits.
ARC14042423-15A	MMW-07R	AQ 04/23/14 17:00	8	0	10	BIXE_C	Analyze Silica Gel only on hits.
ARC14042423-16A	MMW-12R	AQ 04/23/14 16:35	8	0	10	BIXE_C	Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan. Amended 6/6/14 15:50 to change the sample ID for 07A, per email from Rory.KM.

Logged in by: *R. Henneck* Signature *R. Henneck* Print Name *R. Henneck* Company Alpha Analytical, Inc. Date/Time 6/6/14 1550

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

Workorder : ARCW14042423
Report Due By : 5:00 PM On : 08-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Henneck

PO :
 Client's COC # : 11087, 16487 Job : WA000804.2014.00001/KMEP Harbor Island GWM
 QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
 1 °C 24-Apr-14 24-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles			Requested Tests						Sample Remarks		
			Alpha	Sub	TAT	300_0_W	3500FE_201_S_W	METALS_A_Q	METHANE_W	SULFIDE_W	TPHIE_SG_W		TPHIE_W	TPHP_W
ARC14042423-01A	MMW-20	AQ 04/22/14 17:10	6	0	10									Voa received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-02A	MMW-3	AQ 04/22/14 17:45	7	0	10									Voa received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-03A	A-14R	AQ 04/23/14 11:35	7	0	10									Analyze Silica Gel only on hits.
ARC14042423-04A	A-5	AQ 04/23/14 13:20	3	0	10									
ARC14042423-05A	MMW-25	AQ 04/23/14 12:30	7	0	10									HNO3 poly received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-06A	MMW-1	AQ 04/23/14 14:50	7	0	10									Analyze Silica Gel only on hits.
ARC14042423-07A	SN-02R	AQ 04/23/14 15:45	8	0	10									Bottles received labeled MW-4, matched up by sampling time and logged in per client COC. Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan. :

Signature: *K. Henneck* Print Name: K Henneck Company: Alpha Analytical, Inc. Date/Time: 4/24/14 1035

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Lier V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042423

Report Due By : 5:00 PM On : 08-May-14

Client:

Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention	Phone Number	Email Address
Jonathan Flomerfelt	(206) 726-4712 x	jonathan.flomerfelt@arcadis-us.com
Kyle Haslam	(206) 726-4753 x	kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Heneck

PO :

Client's COC # : 11087, 16487

Job : WA000804.2014.00001/KMEP Harbor Island GWM

Cooler Temp

Samples Received

Date Printed

1 °C

24-Apr-14

24-Apr-14

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests								Sample Remarks							
					300_0_W	3500FE_20_S_W	METALS_A_Q	METHANE_W	SULFIDE_W	TPH/E_SG_W	TPH/E_W	TPHP_W								
ARC14042423-08A	NW-24	AQ 04/23/14 08:40	11	0	10	NO ₃ SO ₄	FE+2	Pb	CH ₄	Sulfide										
ARC14042423-09A	NW-23	AQ 04/23/14 10:30	11	0	10	NO ₃ SO ₄	FE+2	Pb	CH ₄	Sulfide										
ARC14042423-10A	Dup-2	AQ 04/23/14 00:00	3	0	10															
ARC14042423-11A	A-21	AQ 04/23/14 11:20	11	0	10	NO ₃ SO ₄	FE+2	Pb	CH ₄	Sulfide										
ARC14042423-12A	A-10	AQ 04/23/14 12:30	6	0	10															
ARC14042423-13A	A-8	AQ 04/23/14 13:45	6	0	10															
ARC14042423-14A	NW-4	AQ 04/23/14 16:15	6	0	10															
ARC14042423-15A	NW-07R	AQ 04/23/14 17:00	8	0	10															
ARC14042423-16A	NW-12R	AQ 04/23/14 16:35	8	0	10			Pb		Sulfide										

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan.

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	<i>K Murray</i>	Alpha Analytical, Inc.	4/24/14 10:35

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orto T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

Workorder : **ARCW14042423**

Report Due By : **5:00 PM On : 08-May-14**

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention	Jonathan Flomerfelt	Phone Number	(206) 726-4712 x	Email Address	jonathan.flomerfelt@arcadis-us.com
	Kyle Haslam		(206) 726-4753 x		kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Henneck

PO : Client's COC # : 11087, 16487
 Job : WA000804.2014.00001/KMEP Harbor Island GWM

Cooler Temp : 1 °C
 Samples Received : 24-Apr-14
 Date Printed : 24-Apr-14

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests		Sample Remarks
					VOC_W		
ARC14042423-01A	MMW-20	AQ 04/22/14 17:10	6	0	10	BIXE_C	Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-02A	MMW-3	AQ 04/22/14 17:45	7	0	10	BIXE_C	Voas received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-03A	A-14R	AQ 04/23/14 11:35	7	0	10	BIXE_C	Analyze Silica Gel only on hits.
ARC14042423-04A	A-5	AQ 04/23/14 13:20	3	0	10	BIXE_C	
ARC14042423-05A	MMW-25	AQ 04/23/14 12:30	7	0	10	BIXE_C	HNO3 poly received labeled on overpack only. Analyze Silica Gel only on hits.
ARC14042423-06A	MMW-1	AQ 04/23/14 14:50	7	0	10	BIXE_C	Analyze Silica Gel only on hits.
ARC14042423-07A	SN-02R	AQ 04/23/14 15:45	8	0	10	BIXE_C	Bottles received labeled MMW-4, matched up by sampling time and logged in per client COC. Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits, per email from Jonathan..

Signature	<i>K. Henneck</i>	Print Name	K Henneck	Company	Alpha Analytical, Inc.	Date/Time	4/24/14 10:35
-----------	-------------------	------------	-----------	---------	------------------------	-----------	---------------

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : **ARCW14042423**

Report Due By : **5:00 PM On : 08-May-14**

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention: Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory G. Henneck

PO : Client's COC # : 11087, 16487 Job : WA000804,2014,00001KMEP Harbor Island GWM
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp : 1 °C Samples Received : 24-Apr-14 Date Printed : 24-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles			Requested Tests				Sample Remarks
			Alpha	Sub	TAT	VOC_W				
ARC14042423-08A	MW-24	AQ 04/23/14 09:40	11	0	10	BIXE_C				
ARC14042423-09A	MW-23	AQ 04/23/14 10:30	11	0	10	BIXE_C				
ARC14042423-10A	Dup-2	AQ 04/23/14 00:00	3	0	10	BIXE_C				
ARC14042423-11A	A-21	AQ 04/23/14 11:20	11	0	10	BIXE_C				
ARC14042423-12A	A-10	AQ 04/23/14 12:30	6	0	10	BIXE_C				Analyze Silica Gel only on hits.
ARC14042423-13A	A-8	AQ 04/23/14 13:45	6	0	10	BIXE_C				Analyze Silica Gel only on hits.
ARC14042423-14A	MW-4	AQ 04/23/14 16:15	6	0	10	BIXE_C				Analyze Silica Gel only on hits.
ARC14042423-15A	MW-07R	AQ 04/23/14 17:00	8	0	10	BIXE_C				Analyze Silica Gel only on hits.
ARC14042423-16A	MW-12R	AQ 04/23/14 16:35	8	0	10	BIXE_C				Analyze Silica Gel only on hits.

Comments: Security seals intact. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits. per email from Jonathan.

Logged in by: K Henneck Signature: [Signature] Print Name: K Henneck Company: Alpha Analytical, Inc. Date/Time: 4/24/14 10:25

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Phone: 775-355-1044
 Fax: 775-355-0406

Satellite Service Centers:
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 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Phone: 916-386-9089
 Phone: 702-281-4848
 Phone: 714-386-2901

Page # 1 of 2

Billing Information:
 Kulk's Mergers
 Rose & Trandberg

Company: _____
 Attn: _____
 Address: _____
 City, State, Zip: _____
 Phone Number: _____
 Fax: _____

Consultant Client Info:
 ARADIS
 1100 Glavin Way
 Seattle WA

Job and Purchase Order Info:
 Job # _____
 Job Name: _____
 P.O. #: _____
 Name: _____
 Email Address: _____
 Phone #: _____
 Cell #: _____

Report Attention/Project Manager:
 Southern Environmental
 Southern Environmental
 206-726-4712

QC Deliverable Info:
 EDD Required? Yes / No _____
 EDR Required? Yes / No _____
 Global ID: _____
 Data Validation Level: III or IV

Samples Collected from which State? (circle one) AZ CA NV WA ID OR DOD Site Other

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested	Remarks
1712	4/12	AQ	ARC14042423-01	MW-30	10	N	7	TPH-GRO (NWTPH-G)	
1725	4/12	AQ	02	MW-3	10	N	7	BTEX (3200B)	
1740	4/12	AQ		PROBATOR Run 6/12 4/13	10	N	7	TPH-DRO (NWTPH-D)	
1750	4/12	AQ		PROBATOR Run 5/12 4/13	10	N	7	Total Lead (SW 0020)	
1800	4/12	AQ		PROBATOR Run 4/12 4/13	10	N	7	Diss. Lead (SW 0020)	
1815	4/12	AQ		PROBATOR Run 3/12 4/13	10	N	7	Nitrate/Sulfate (300)	
1830	4/12	AQ		PROBATOR Run 2/12 4/13	10	N	7	Sulfide (4520-5-D)	
1845	4/12	AQ		PROBATOR Run 1/12 4/13	10	N	7	Ferrous Iron (SM 200-FB)	
1900	4/12	AQ		PROBATOR Run 0/12 4/13	10	N	7	Mercury (ASAC-175)	
1915	4/12	AQ		PROBATOR Run -1/12 4/13	10	N	7		
1930	4/12	AQ		PROBATOR Run -2/12 4/13	10	N	7		
1945	4/12	AQ		PROBATOR Run -3/12 4/13	10	N	7		
1960	4/12	AQ		PROBATOR Run -4/12 4/13	10	N	7		
1975	4/12	AQ		PROBATOR Run -5/12 4/13	10	N	7		
1990	4/12	AQ		PROBATOR Run -6/12 4/13	10	N	7		
2005	4/12	AQ		PROBATOR Run -7/12 4/13	10	N	7		
2020	4/12	AQ		PROBATOR Run -8/12 4/13	10	N	7		
2035	4/12	AQ		PROBATOR Run -9/12 4/13	10	N	7		
2050	4/12	AQ		PROBATOR Run -10/12 4/13	10	N	7		
2105	4/12	AQ		PROBATOR Run -11/12 4/13	10	N	7		
2120	4/12	AQ		PROBATOR Run -12/12 4/13	10	N	7		
2135	4/12	AQ		PROBATOR Run -13/12 4/13	10	N	7		
2150	4/12	AQ		PROBATOR Run -14/12 4/13	10	N	7		
2205	4/12	AQ		PROBATOR Run -15/12 4/13	10	N	7		
2220	4/12	AQ		PROBATOR Run -16/12 4/13	10	N	7		
2235	4/12	AQ		PROBATOR Run -17/12 4/13	10	N	7		
2250	4/12	AQ		PROBATOR Run -18/12 4/13	10	N	7		
2305	4/12	AQ		PROBATOR Run -19/12 4/13	10	N	7		
2320	4/12	AQ		PROBATOR Run -20/12 4/13	10	N	7		
2335	4/12	AQ		PROBATOR Run -21/12 4/13	10	N	7		
2350	4/12	AQ		PROBATOR Run -22/12 4/13	10	N	7		
2405	4/12	AQ		PROBATOR Run -23/12 4/13	10	N	7		
2420	4/12	AQ		PROBATOR Run -24/12 4/13	10	N	7		
2435	4/12	AQ		PROBATOR Run -25/12 4/13	10	N	7		
2450	4/12	AQ		PROBATOR Run -26/12 4/13	10	N	7		
2505	4/12	AQ		PROBATOR Run -27/12 4/13	10	N	7		
2520	4/12	AQ		PROBATOR Run -28/12 4/13	10	N	7		
2535	4/12	AQ		PROBATOR Run -29/12 4/13	10	N	7		
2550	4/12	AQ		PROBATOR Run -30/12 4/13	10	N	7		

ADDITIONAL INSTRUCTIONS:

3 coolers (1 large, 2 small) - COLS only in one cooler

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: Roy G. Hume
 Date: 4/12/14 Time: 1800
 Received by: [Signature] Date: 4/29/14 Time: 1010

Relinquished by: [Signature] Date: _____ Time: _____

Relinquished by: [Signature/Affiliation] Date: _____ Time: _____

Key: AQ - Aqueous WA - Waste OT - Other ** L - Lier V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



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 Northern CA: 9891 Hom Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-555-1044
 Fax: 775-555-0406
 Phone: 916-566-9089
 Phone: 714-386-2901
 Phone: 775-386-7043
 Phone: 702-281-4848

Page # **2** of **2**

Billing Information:
 Client: Hydro Energy Partners
 Address: Robert Treuting
 City, State, Zip: _____
 Phone Number: _____
 Fax: _____

Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9891 Hom Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801
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Phone: 775-555-1044
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 Phone: 916-566-9089
 Phone: 714-386-2901
 Phone: 775-386-7043
 Phone: 702-281-4848

Page # **2** of **2**

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?		TPH-GRO (NWTPH-Gx)	TPH-DRO/HO (NWTPH-Dx)	BTEX (8260B)	Total lead (SW6020)	Diss lead (SW6020)	Nitrate/Sulfate (300.0)	Sulfide (4500-S-D)	Ferrous Iron (SM2500-Fe)	Methane (RSK-175)	Remarks
							Yes	No										
0940	4/23	AQ	ARC14042423-08	MW-24	10	11	X	X	X	X	X	X	X	X	X	X	X	
1030	4/23	AQ		MW-23	10	11	X	X	X	X	X	X	X	X	X	X	X	
	4/23	AQ		Dug-2	10	3	X	X	X	X	X	X	X	X	X	X	X	
1120	4/23	AQ		A-21	10	10	X	X	X	X	X	X	X	X	X	X	X	
1230	4/23	AQ		A-10	10	6	X	X	X	X	X	X	X	X	X	X	X	
1345	4/23	AQ		A-8	10	6	X	X	X	X	X	X	X	X	X	X	X	
1415	4/23	AQ		MW-4	10	6	X	X	X	X	X	X	X	X	X	X	X	
1700	4/23	AQ		MW-07R	10	8	X	X	X	X	X	X	X	X	X	X	X	
1635	4/23	AQ		MW-12R	10	8	X	X	X	X	X	X	X	X	X	X	X	

3 coolers (1 large, 2 small) - COCs only in one cooler

ADDITIONAL INSTRUCTIONS:

1 (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: [Signature] Date: 4/23/14 Time: 1800
 Relinquished by: (Signature/Affiliation): [Signature] Date: 4/23/14 Time: 1800
 Relinquished by: (Signature/Affiliation): [Signature] Date: 4/23/14 Time: 1800
 Relinquished by: (Signature/Affiliation): [Signature] Date: 4/23/14 Time: 1800

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil ** L - Liter V - VOA S-Soil Jar O - Other T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/25/14

Job: WA000804.2014/KMLT Harbor Island

Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-21				
Lab ID: ARC14042521-02A Nitrate (NO3) - N	ND	0.25 mg/L	04/25/14 15:12	04/26/14 00:09
Date Sampled 04/24/14 09:45 Sulfate (SO4)	7.8	0.50 mg/L	04/25/14 15:12	04/26/14 00:09
Client ID: TMW-3				
Lab ID: ARC14042521-03A Nitrate (NO3) - N	ND	0.25 mg/L	04/25/14 15:12	04/26/14 00:27
Date Sampled 04/24/14 09:45 Sulfate (SO4)	2,500	25 mg/L	04/25/14 15:12	04/29/14 19:47
Client ID: TMW-4				
Lab ID: ARC14042521-04A Nitrate (NO3) - N	ND	0.25 mg/L	04/25/14 15:12	04/26/14 00:46
Date Sampled 04/24/14 10:40 Sulfate (SO4)	1,400	500 mg/L	04/25/14 15:12	04/29/14 20:05
Client ID: TMW-5				
Lab ID: ARC14042521-05A Nitrate (NO3) - N	ND	0.25 mg/L	04/25/14 15:12	04/26/14 01:04
Date Sampled 04/24/14 11:45 Sulfate (SO4)	4,000	500 mg/L	04/25/14 15:12	04/29/14 20:24
Client ID: TMW-6				
Lab ID: ARC14042521-06A Nitrate (NO3) - N	ND	0.25 mg/L	04/25/14 15:12	04/26/14 01:23
Date Sampled 04/24/14 11:10 Sulfate (SO4)	1,800	500 mg/L	04/25/14 15:12	04/29/14 20:42

ND = Not Detected



Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
 Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
 Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/8/14
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/25/14

Job: WA000804.2014/KMLT Harbor Island

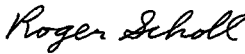

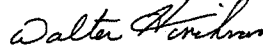
Iron by Spectrophotometer
SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-21				
Lab ID: ARC14042521-02A Iron, Ferrous (+2)	ND	0.050 mg/L	04/25/14	04/25/14
Date Sampled 04/24/14 09:45				

Ferrous iron samples were color developed promptly after laboratory login.

ND = Not Detected






 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
 Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
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5/8/14
Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/25/14

Job: WA000804.2014/KMLT Harbor Island

Metals by ICPMS EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-8				
Lab ID : ARC14042521-01A Lead (Pb)	0.027	0.0050 mg/L	04/28/14	04/29/14
Date Sampled 04/24/14 10:25				
Client ID: Drum-1				
Lab ID : ARC14042521-08A Chromium (Cr)	0.026	0.010 mg/L	04/28/14	04/29/14
Date Sampled 04/24/14 11:50 Arsenic (As)	0.065	0.0050 mg/L	04/28/14	04/29/14
Selenium (Se)	ND	0.0050 mg/L	04/28/14	04/29/14
Silver (Ag)	ND	0.0050 mg/L	04/28/14	04/29/14
Cadmium (Cd)	ND	0.0020 mg/L	04/28/14	04/29/14
Barium (Ba)	0.053	0.0050 mg/L	04/28/14	04/29/14
Mercury (Hg)	ND	0.0010 mg/L	04/28/14	04/29/14
Lead (Pb)	0.024	0.0050 mg/L	04/28/14	04/29/14

ND = Not Detected



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 Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



5/8/14

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/25/14

Job: WA000804.2014/KMLT Harbor Island

Dissolved Gases Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-21				
Lab ID : ARC14042521-02A Methane	0.20	0.010 mg/L	04/29/14	04/29/14
Date Sampled 04/24/14 09:45				



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5/8/14
 Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/25/14

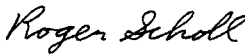

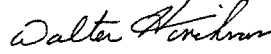
Job: WA000804.2014/KMLT Harbor Island

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-21 Lab ID : ARC14042521-02A Sulfide Date Sampled 04/24/14 09:45	ND	0.10 mg/L	04/30/14	04/30/14
Client ID: TMW-3 Lab ID : ARC14042521-03A Sulfide Date Sampled 04/24/14 09:45	ND	0.10 mg/L	04/30/14	04/30/14
Client ID: TMW-4 Lab ID : ARC14042521-04A Sulfide Date Sampled 04/24/14 10:40	ND	0.10 mg/L	04/30/14	04/30/14
Client ID: TMW-5 Lab ID : ARC14042521-05A Sulfide Date Sampled 04/24/14 11:45	ND	0.10 mg/L	04/30/14	04/30/14
Client ID: TMW-6 Lab ID : ARC14042521-06A Sulfide Date Sampled 04/24/14 11:10	ND	0.10 mg/L	04/30/14	04/30/14

ND = Not Detected






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ANALYTICAL REPORT

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1100 Olive Way, Suite 800
Seattle, WA 98101

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 04/25/14

Job: WA000804.2014/KMLT Harbor Island

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID : MW-8					
Lab ID : ARC14042521-01A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	04/25/14	04/28/14
Date Sampled 04/24/14 10:25	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/25/14	04/28/14
	Surr: Nonane, Silica Gel	91	(53-145) %REC	04/25/14	04/28/14
	TPH-E (DRO)	0.49	0.25 mg/L	04/25/14	04/25/14
	TPH-E (ORO)	ND	0.50 mg/L	04/25/14	04/25/14
	Surr: Nonane	105	(53-145) %REC	04/25/14	04/25/14
	TPH-P (GRO)	ND	0.25 mg/L	04/30/14	04/30/14
	Benzene	ND	0.50 µg/L	04/30/14	04/30/14
	Toluene	ND	0.50 µg/L	04/30/14	04/30/14
	Ethylbenzene	ND	0.50 µg/L	04/30/14	04/30/14
	Xylenes, Total	ND	0.50 µg/L	04/30/14	04/30/14
	Surr: 1,2-Dichloroethane-d4	84	(70-130) %REC	04/30/14	04/30/14
	Surr: Toluene-d8	126	(70-130) %REC	04/30/14	04/30/14
	Surr: 4-Bromofluorobenzene	65	(70-130) %REC	04/30/14	04/30/14
		S54			
Client ID : MW-21					
Lab ID : ARC14042521-02A	TPH-E (DRO), Silica Gel	0.28	0.25 mg/L	04/25/14	04/28/14
Date Sampled 04/24/14 09:45	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	04/25/14	04/28/14
	Surr: Nonane, Silica Gel	95	(53-145) %REC	04/25/14	04/28/14
	TPH-E (DRO)	0.74	0.25 mg/L	04/25/14	04/25/14
	TPH-E (ORO)	ND	0.50 mg/L	04/25/14	04/25/14
	Surr: Nonane	111	(53-145) %REC	04/25/14	04/25/14
	TPH-P (GRO)	ND	0.25 mg/L	04/30/14	04/30/14
	Benzene	ND	0.50 µg/L	04/30/14	04/30/14
	Toluene	ND	0.50 µg/L	04/30/14	04/30/14
	Ethylbenzene	ND	0.50 µg/L	04/30/14	04/30/14
	Xylenes, Total	ND	0.50 µg/L	04/30/14	04/30/14
	Surr: 1,2-Dichloroethane-d4	82	(70-130) %REC	04/30/14	04/30/14
	Surr: Toluene-d8	117	(70-130) %REC	04/30/14	04/30/14
	Surr: 4-Bromofluorobenzene	75	(70-130) %REC	04/30/14	04/30/14
Client ID : TMW-3					
Lab ID : ARC14042521-03A	TPH-P (GRO)	0.51	0.25 mg/L	04/30/14	04/30/14
Date Sampled 04/24/14 09:45	Benzene	ND	0.50 µg/L	04/30/14	04/30/14
	Toluene	4.6	0.50 µg/L	04/30/14	04/30/14
	Ethylbenzene	1.1	0.50 µg/L	04/30/14	04/30/14
	Xylenes, Total	ND	0.50 µg/L	04/30/14	04/30/14
	Surr: 1,2-Dichloroethane-d4	81	(70-130) %REC	04/30/14	04/30/14
	Surr: Toluene-d8	100	(70-130) %REC	04/30/14	04/30/14
	Surr: 4-Bromofluorobenzene	114	(70-130) %REC	04/30/14	04/30/14



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Client ID :	TMW-4					
Lab ID :	ARC14042521-04A	TPH-P (GRO)	4.0	1.0 mg/L	04/30/14	04/30/14
Date Sampled	04/24/14 10:40	Benzene	160	5.0 µg/L	04/30/14	04/30/14
		Toluene	44	5.0 µg/L	04/30/14	04/30/14
		Ethylbenzene	390	5.0 µg/L	04/30/14	04/30/14
		Xylenes, Total	840	5.0 µg/L	04/30/14	04/30/14
		Surr: 1,2-Dichloroethane-d4	79	(70-130) %REC	04/30/14	04/30/14
		Surr: Toluene-d8	124	(70-130) %REC	04/30/14	04/30/14
		Surr: 4-Bromofluorobenzene	90	(70-130) %REC	04/30/14	04/30/14

Client ID :	TMW-5					
Lab ID :	ARC14042521-05A	TPH-P (GRO)	1.4	0.30 mg/L	04/30/14	04/30/14
Date Sampled	04/24/14 11:45	Benzene	ND	1.5 µg/L	04/30/14	04/30/14
		Toluene	2.6	1.5 µg/L	04/30/14	04/30/14
		Ethylbenzene	1.7	1.5 µg/L	04/30/14	04/30/14
		Xylenes, Total	2.1	1.5 µg/L	04/30/14	04/30/14
		Surr: 1,2-Dichloroethane-d4	76	(70-130) %REC	04/30/14	04/30/14
		Surr: Toluene-d8	117	(70-130) %REC	04/30/14	04/30/14
		Surr: 4-Bromofluorobenzene	108	(70-130) %REC	04/30/14	04/30/14

Client ID :	TMW-6					
Lab ID :	ARC14042521-06A	TPH-P (GRO)	5.1	0.50 mg/L	04/30/14	04/30/14
Date Sampled	04/24/14 11:10	Benzene	15	2.5 µg/L	04/30/14	04/30/14
		Toluene	3.6	2.5 µg/L	04/30/14	04/30/14
		Ethylbenzene	190	2.5 µg/L	04/30/14	04/30/14
		Xylenes, Total	370	2.5 µg/L	04/30/14	04/30/14
		Surr: 1,2-Dichloroethane-d4	72	(70-130) %REC	04/30/14	04/30/14
		Surr: Toluene-d8	127	(70-130) %REC	04/30/14	04/30/14
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	04/30/14	04/30/14

Client ID :	Drum-1					
Lab ID :	ARC14042521-08A	TPH-P (GRO)	0.56	0.50 mg/L	04/30/14	04/30/14
Date Sampled	04/24/14 11:50	Benzene	22	2.5 µg/L	04/30/14	04/30/14
		Toluene	ND	2.5 µg/L	04/30/14	04/30/14
		Ethylbenzene	41	2.5 µg/L	04/30/14	04/30/14
		Xylenes, Total	110	2.5 µg/L	04/30/14	04/30/14
		Surr: 1,2-Dichloroethane-d4	81	(70-130) %REC	04/30/14	04/30/14
		Surr: Toluene-d8	126	(70-130) %REC	04/30/14	04/30/14
		Surr: 4-Bromofluorobenzene	77	(70-130) %REC	04/30/14	04/30/14

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

Oil Range Organics (ORO) C22-C40+

S54 = Surrogate recovery was below laboratory acceptance limits.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected



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5/8/14

Report Date



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VOC Sample Preservation Report

Work Order: ARC14042521

Job: WA000804.2014/KMLT Harbor Island

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14042521-01A	MW-8	Aqueous	2
14042521-02A	MW-21	Aqueous	2
14042521-03A	TMW-3	Aqueous	2
14042521-04A	TMW-4	Aqueous	2
14042521-05A	TMW-5	Aqueous	2
14042521-06A	TMW-6	Aqueous	2
14042521-08A	Drum-1	Aqueous	2

5/8/14

Report Date



Alpha Analytical, Inc.

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Date:
08-May-14

QC Summary Report

Work Order:
14042521

Method Blank

Method Blank		Type	MBLK		Test Code: EPA Method 300.0					
File ID:	29		Batch ID: 32805		Analysis Date: 04/25/2014 16:08					
Sample ID:	MB-32805	Units :	mg/L		Run ID: IC_1_140425A		Prep Date: 04/25/2014 15:12			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	ND	0.25								
Sulfate (SO4)	ND	0.5								

Laboratory Fortified Blank

Laboratory Fortified Blank		Type	LFB		Test Code: EPA Method 300.0					
File ID:	30		Batch ID: 32805		Analysis Date: 04/25/2014 16:26					
Sample ID:	LFB-32805	Units :	mg/L		Run ID: IC_1_140425A		Prep Date: 04/25/2014 15:12			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	5.49	0.25	5		110	90	110			
Sulfate (SO4)	103	0.5	100		103	90	110			

Sample Matrix Spike

Sample Matrix Spike		Type	LFM		Test Code: EPA Method 300.0					
File ID:	33		Batch ID: 32805		Analysis Date: 04/25/2014 17:22					
Sample ID:	14042508-01ALFM	Units :	mg/L		Run ID: IC_1_140425A		Prep Date: 04/25/2014 15:12			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	27.5	0.63	25	0	110	80	120			
Sulfate (SO4)	503	1.3	500	0	101	80	120			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	LFMD		Test Code: EPA Method 300.0					
File ID:	34		Batch ID: 32805		Analysis Date: 04/25/2014 17:40					
Sample ID:	14042508-01ALFMD	Units :	mg/L		Run ID: IC_1_140425A		Prep Date: 04/25/2014 15:12			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	27.4	0.63	25	0	110	80	120	27.51	0.2(15)	
Sulfate (SO4)	502	1.3	500	0	100	80	120	502.7	0.1(15)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
29-Apr-14

QC Summary Report

Work Order:
14042521

Method Blank

File ID:	Type	MBLK	Test Code:	SM3500-Fe B	Batch ID:	W0425FR	Analysis Date:	04/25/2014 00:00		
Sample ID:	MBLK-W0425FR	Units :	mg/L	Run ID:	WETLAB_140425A	Prep Date:	04/25/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM3500-Fe B	Batch ID:	W0425FR	Analysis Date:	04/25/2014 00:00		
Sample ID:	LCS-W0425FR	Units :	mg/L	Run ID:	WETLAB_140425A	Prep Date:	04/25/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.39	0.05	1.5		93	70	130			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM3500-Fe B	Batch ID:	W0425FR	Analysis Date:	04/25/2014 00:00		
Sample ID:	14042201-01AMS	Units :	mg/L	Run ID:	WETLAB_140425A	Prep Date:	04/25/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.43	0.05	1.5		0	96	66	130		

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM3500-Fe B	Batch ID:	W0425FR	Analysis Date:	04/25/2014 00:00		
Sample ID:	14042201-01AMSD	Units :	mg/L	Run ID:	WETLAB_140425A	Prep Date:	04/25/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.51	0.05	1.5		0	101	66	130	1.434	5.2(20)

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
08-May-14

QC Summary Report

Work Order:
14042521

Method Blank

Type MBLK Test Code: EPA Method SW6020 / SW6020A

File ID: 020_

Batch ID: 32811

Analysis Date: 04/29/2014 13:39

Sample ID: MB-32811

Units: mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	0.01								
Arsenic (As)	ND	0.005								
Selenium (Se)	ND	0.005								
Silver (Ag)	ND	0.005								
Cadmium (Cd)	ND	0.002								
Barium (Ba)	ND	0.005								
Mercury (Hg)	ND	0.001								
Lead (Pb)	ND	0.005								

Laboratory Control Spike

Type LCS Test Code: EPA Method SW6020 / SW6020A

File ID: 023_

Batch ID: 32811

Analysis Date: 04/29/2014 13:47

Sample ID: LCS-32811

Units: mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.266	0.01	0.25		106	80	120			
Arsenic (As)	0.267	0.005	0.25		107	80	120			
Selenium (Se)	0.267	0.005	0.25		107	80	120			
Silver (Ag)	0.279	0.005	0.25		112	80	120			
Cadmium (Cd)	0.261	0.002	0.25		104	80	120			
Barium (Ba)	2.63	0.005	2.5		105	80	120			
Mercury (Hg)	0.00546	0.001	0.005		109	80	120			
Lead (Pb)	0.246	0.005	0.25		98	80	120			

Sample Matrix Spike

Type MS Test Code: EPA Method SW6020 / SW6020A

File ID: 024_

Batch ID: 32811

Analysis Date: 04/29/2014 13:50

Sample ID: 14042201-01AMS

Units: mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.271	0.01	0.25		0 108	75	125			
Arsenic (As)	0.277	0.005	0.25	0.007679	108	75	125			
Selenium (Se)	0.27	0.005	0.25		0 108	75	125			
Silver (Ag)	0.283	0.005	0.25		0 113	75	125			
Cadmium (Cd)	0.268	0.002	0.25		0 107	75	125			
Barium (Ba)	2.67	0.005	2.5	0.07486	104	75	125			
Mercury (Hg)	0.00516	0.001	0.005		0 103	75	125			
Lead (Pb)	0.254	0.005	0.25		0 102	75	125			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW6020 / SW6020A

File ID: 025_

Batch ID: 32811

Analysis Date: 04/29/2014 13:53

Sample ID: 14042201-01AMSD

Units: mg/L

Run ID: ICP/MS_140429B

Prep Date: 04/28/2014 15:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.275	0.01	0.25		0 110	75	125	0.2711	1.4(20)	
Arsenic (As)	0.281	0.005	0.25	0.007679	109	75	125	0.2774	1.3(20)	
Selenium (Se)	0.275	0.005	0.25		0 110	75	125	0.2698	2.1(20)	
Silver (Ag)	0.284	0.005	0.25		0 114	75	125	0.2827	0.6(20)	
Cadmium (Cd)	0.269	0.002	0.25		0 108	75	125	0.2683	0.4(20)	
Barium (Ba)	2.76	0.005	2.5	0.07486	107	75	125	2.665	3.6(20)	
Mercury (Hg)	0.0054	0.001	0.005		0 108	75	125	0.005161	4.4(20)	
Lead (Pb)	0.259	0.005	0.25		0 104	75	125	0.2541	1.9(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
01-May-14

QC Summary Report

Work Order:
14042521

Method Blank

File ID:	Type	MBLK	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 16:18		
Sample ID:	MBLK-32816	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	ND	0.01								

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 16:37		
Sample ID:	LCS-32816	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	0.344	0.01	0.452		76	54	138			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 19:36		
Sample ID:	14042423-09AMS	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	4.96	0.01	1.81	3.114	102	43	138			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	Modified Method RSK-175 GC/FID	Batch ID:	32816	Analysis Date:	04/29/2014 19:57		
Sample ID:	14042423-09AMSD	Units :	mg/L	Run ID:	FID_6_140429A	Prep Date:	04/29/2014 14:34			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	6.23	0.01	1.81	3.114	172	43	138	4.958	22.7(27)	M1

Comments:

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M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
02-May-14

QC Summary Report

Work Order:
14042521

Method Blank

File ID:	Type	MBLK	Test Code:	SM4500-S D	Batch ID:	W0430SU	Analysis Date:	04/30/2014 00:00		
Sample ID:	MBLK-W0430SU	Units :	mg/L	Run ID:	WETLAB_140430B	Prep Date:	04/30/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND		0.1							

Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM4500-S D	Batch ID:	W0430SU	Analysis Date:	04/30/2014 00:00		
Sample ID:	LCS-W0430SU	Units :	mg/L	Run ID:	WETLAB_140430B	Prep Date:	04/30/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.965	0.1	1		97	60	140			

Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM4500-S D	Batch ID:	W0430SU	Analysis Date:	04/30/2014 00:00		
Sample ID:	14042521-04AMS	Units :	mg/L	Run ID:	WETLAB_140430B	Prep Date:	04/30/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.974	0.1	1		0 97	51	144			

Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM4500-S D	Batch ID:	W0430SU	Analysis Date:	04/30/2014 00:00		
Sample ID:	14042521-04AMSD	Units :	mg/L	Run ID:	WETLAB_140430B	Prep Date:	04/30/2014 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.995	0.1	1		0 100	51	144	0.974	2.1(20)	

Comments:

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Date:
02-May-14

QC Summary Report

Work Order:
14042521

Method Blank

File ID: 2A04241416.D

Sample ID: MBLK-32801

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	0.25								
TPH-E (ORO)	ND	0.5								
Surr: Nonane	0.143		0.15		95	53	145			

Laboratory Control Spike

File ID: 2A04241415.D

Sample ID: LCS-32801

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.16	0.05	2.5		86	70	130			
Surr: Nonane	0.152		0.15		101	53	145			

Sample Matrix Spike

File ID: 2A04241435.D

Sample ID: 14042520-02AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.47	0.05	2.5	0	99	51	151			
Surr: Nonane	0.18		0.15		120	53	145			

Sample Matrix Spike Duplicate

File ID: 2A04241436.D

Sample ID: 14042520-02AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.62	0.05	2.5	0	105	51	151	2.468	6.1(40)	
Surr: Nonane	0.16		0.15		107	53	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
02-May-14

QC Summary Report

Work Order:
14042521

Method Blank

File ID: 14043005.D

Sample ID: MBLK MS08W0430B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.25								
Surr: 1,2-Dichloroethane-d4	0.00819		0.01		82	70	130			
Surr: Toluene-d8	0.0117		0.01		117	70	130			
Surr: 4-Bromofluorobenzene	0.00739		0.01		74	70	130			

Laboratory Control Spike

File ID: 14043004.D

Sample ID: GLCS MS08W0430B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.356	0.05	0.4		89	70	130			
Surr: 1,2-Dichloroethane-d4	0.00764		0.01		76	70	130			
Surr: Toluene-d8	0.00967		0.01		97	70	130			
Surr: 4-Bromofluorobenzene	0.0127		0.01		127	70	130			

Sample Matrix Spike

File ID: 14043028.D

Sample ID: 14042902-04AGS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.89	0.25	2	0.2054	84	54	143			
Surr: 1,2-Dichloroethane-d4	0.0386		0.05		77	70	130			
Surr: Toluene-d8	0.0514		0.05		103	70	130			
Surr: 4-Bromofluorobenzene	0.0577		0.05		115	70	130			

Sample Matrix Spike Duplicate

File ID: 14043029.D

Sample ID: 14042902-04AGSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.84	0.25	2	0.2054	82	54	143	1.895	3.2(23)	
Surr: 1,2-Dichloroethane-d4	0.0372		0.05		74	70	130			
Surr: Toluene-d8	0.0526		0.05		105	70	130			
Surr: 4-Bromofluorobenzene	0.0574		0.05		115	70	130			

Comments:

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Date:
02-May-14

QC Summary Report

Work Order:
14042521

Method Blank

File ID: 14043005.D

Sample ID: MBLK MS08W0430A

Type MBLK

Test Code: EPA Method SW8260B

Batch ID: MS08W0430A

Analysis Date: 04/30/2014 12:31

Run ID: MSD_08_140430B

Prep Date: 04/30/2014 12:31

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	8.19		10		82	70	130			
Surr: Toluene-d8	11.7		10		117	70	130			
Surr: 4-Bromofluorobenzene	7.39		10		74	70	130			

Laboratory Control Spike

File ID: 14043003.D

Sample ID: LCS MS08W0430A

Type LCS

Test Code: EPA Method SW8260B

Batch ID: MS08W0430A

Analysis Date: 04/30/2014 11:32

Run ID: MSD_08_140430B

Prep Date: 04/30/2014 11:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.85	0.5	10		99	70	130			
Toluene	10.9	0.5	10		109	80	120			
Ethylbenzene	9.38	0.5	10		94	80	120			
Xylenes, Total	18.5	0.5	20		93	70	130			
Surr: 1,2-Dichloroethane-d4	8.55		10		86	70	130			
Surr: Toluene-d8	9.94		10		99	70	130			
Surr: 4-Bromofluorobenzene	11.7		10		117	70	130			

Sample Matrix Spike

File ID: 14043026.D

Sample ID: 14042902-04AMS

Type MS

Test Code: EPA Method SW8260B

Batch ID: MS08W0430A

Analysis Date: 04/30/2014 20:49

Run ID: MSD_08_140430B

Prep Date: 04/30/2014 20:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	51.1	1.3	50	0.58	101	67	134			
Toluene	58.1	1.3	50	0	116	38	130			
Ethylbenzene	50.8	1.3	50	0.5	101	70	130			
Xylenes, Total	104	1.3	100	1.65	102	70	130			
Surr: 1,2-Dichloroethane-d4	42.7		50		85	70	130			
Surr: Toluene-d8	49.1		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.5		50		97	70	130			

Sample Matrix Spike Duplicate

File ID: 14043027.D

Sample ID: 14042902-04AMSD

Type MSD

Test Code: EPA Method SW8260B

Batch ID: MS08W0430A

Analysis Date: 04/30/2014 21:12

Run ID: MSD_08_140430B

Prep Date: 04/30/2014 21:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	51.5	1.3	50	0.58	102	67	134	51.14	0.7(21)	
Toluene	57.9	1.3	50	0	116	38	130	58.07	0.4(20)	
Ethylbenzene	51.4	1.3	50	0.5	102	70	130	50.79	1.1(20)	
Xylenes, Total	104	1.3	100	1.65	102	70	130	103.7	0.0(22)	
Surr: 1,2-Dichloroethane-d4	43.1		50		86	70	130			
Surr: Toluene-d8	49.9		50		99.8	70	130			
Surr: 4-Bromofluorobenzene	48.4		50		97	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042521
Report Due By : 5:00 PM On : 09-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory Henneck

Client's COC # : 11090 Job : WA000804.2014/KMLT Harbor Island
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
 Cooler Temp Samples Received Date Printed
 0 °C 25-Apr-14 25-Apr-14

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests						Sample Remarks	
					300_0_W	3500FE_20 S_W	HOLD	METALS_A Q	METHANE_W	SULFIDE_W		TPHE_SG_W
ARC14042521-01A	NW-8	AQ 04/24/14 10:25	7	0	10				Pb			Analyze Silica Gel only on hits.
ARC14042521-02A	NW-21	AQ 04/24/14 09:45	13	0	10		FE-2		CH4			Analyze Silica Gel only on hits.
ARC14042521-03A	TMW-3	AQ 04/24/14 09:45	6	0	10		NO3_S04					
ARC14042521-04A	TMW-4	AQ 04/24/14 10:40	6	0	10		NO3_S04					
ARC14042521-05A	TMW-5	AQ 04/24/14 11:45	6	0	10		NO3_S04					
ARC14042521-06A	TMW-6	AQ 04/24/14 11:10	6	0	10		NO3_S04					
ARC14042521-07A	Trip Blank	AQ 04/24/14 00:00	1	0	10				Hold			Reno Trip Blank 1/9/14
ARC14042521-08A	Drum-1	AQ 04/24/14 11:50	4	0	10							

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits. per email from Jonathan on 4/23/14.

Logged in by: *R Henneck* **Signature** *R Henneck* **Print Name**
 _____ **Company** Alpha Analytical, Inc. **Date/Time** 4/25/14 11:55

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

WA

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW14042521
Report Due By : 5:00 PM On : 09-May-14

Client:
 Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : No

Sampled by : Rory Henneck

Client's COC # : 11090 Job : WA000804.2014/KMLT Harbor Island

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests						Sample Remarks	
			Alpha	Sub TAT	TPHP_W	VOC_W						
ARC14042521-01A	NW-8	AQ 04/24/14 10:25	7	0	10	NWTPH-GX	BTXE_C					Analyze Silica Gel only on hits.
ARC14042521-02A	NW-21	AQ 04/24/14 09:45	13	0	10	NWTPH-GX	BTXE_C					Analyze Silica Gel only on hits.
ARC14042521-03A	TMW-3	AQ 04/24/14 09:45	6	0	10	NWTPH-GX	BTXE_C					
ARC14042521-04A	TMW-4	AQ 04/24/14 10:40	6	0	10	NWTPH-GX	BTXE_C					
ARC14042521-05A	TMW-5	AQ 04/24/14 11:45	6	0	10	NWTPH-GX	BTXE_C					
ARC14042521-06A	TMW-6	AQ 04/24/14 11:10	6	0	10	NWTPH-GX	BTXE_C					
ARC14042521-07A	Trip Blank	AQ 04/24/14 00:00	1	0	10							Reno Trip Blank 1/9/14
ARC14042521-08A	Drum-1	AQ 04/24/14 11:50	4	0	10	NWTPH-GX	BTXE_C					

Comments: No security seals. Frozen ice. Total Xylenes. CA limits for VOCs. Logged in TPH-DRO/HO with and without Silica Gel. Analyze Silica Gel only on hits. per email from Jonathan on 4/23/14.

Logged in by: K Murray Signature: _____ Print Name: _____ Company: Alpha Analytical, Inc. Date/Time: 4/25/14 11:55

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Company: Kindle Morgan Energy Returns
 Attn: Robert Trevisan
 Address: _____
 City, State, Zip: _____
 Phone Number: _____
 Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern NV: 6255 Med. Ind. Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 702-251-4846
 Phone: 714-386-2801

Page # 1 of 1

Consultant/ Client Info:
ARCADIS
1103 Olive Way, Ste 600
Seattle WA 98101

Job and Purchase Order Info:
 Job # W/000080 by 2014
 Job Name: ICM/T Harbor Island
 P.O. # _____

Report Attention/Project Manager:
 Name: Venishan Filsaime
 Email Address: Venishan.Filsaime@arcadis-usa.com
 Phone #: 202-726-9712
 Cell #: _____

Samples Collected from which State? (circle one) AZ CA NV MS ID OR DOD Site Other

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested							Remarks				
10:55	04/24	AQ	ARC14042521-01	MW-8	10	N	7	ORO by NUTPH Co	BTEX by 6260S	DRU/HO by NUTPH Co w/ SGC	Nitrate by N by 300.0	Sulfate by 300.0	Sulfide by 450-5-D	Total Pb by 60.0	✓	Iron by SM 2502-Fe B	Methane by RSK-MS	RCRA 8 metals	
7:45	04/24	AQ		MW-21	10	N	13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7:45	04/24	AQ		TMW-3	10	N	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10:42	04/24	AQ		TMW-4	10	N	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1:45	04/24	AQ		TMW-5	10	N	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11:10	04/24	AQ		TMW-6	10	N	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
---	4/24	AQ		Tip Blank	10	N	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15:30	4/24	AQ		Drawn-1	10	N	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	hold

ADDITIONAL INSTRUCTIONS: Please include sites get cleanup for all DR0 samples.

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: Ray CHA Date: 4/24/14 Time: 1:37
 Requisitioned by: PHS Date: 4/24/14 Time: 1:37
 Relinquished by: Scott Manning Date: 4/24/14 Time: 1:37
 Relinquished by: PHS Date: 4/24/14 Time: 1:37
 Relinquished by: PHS Date: 4/24/14 Time: 1:37
 Relinquished by: PHS Date: 4/24/14 Time: 1:37

* Key: AQ - Aqueous WA - Waste OT - Other ** L - Litter V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.