

**Third Quarter 2013 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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Maura O'Brien
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Subject:
Third Quarter 2013 Groundwater Monitoring Report
Kinder Morgan Harbor Island Terminal
KMLT File No. 29.79.02 (81171)
2720 13th Avenue Southwest
Seattle, Washington 98134

ENVIRONMENT

Date
September 9, 2013

Dear Ms. O'Brien:

Contact:
Grant V. Sprick

On behalf of Kinder Morgan Liquids Terminals, LLC (KMLT), ARCADIS U.S., Inc. (ARCADIS), is pleased to submit this *Third Quarter 2013 Groundwater Monitoring Report* for the above referenced facility (the site). This report also includes analytical data and conclusions for the sulfate land application one-month performance monitoring event.

Phone:
503-220-8201

The next groundwater monitoring event at the site is scheduled for fourth quarter 2013. Should you have any questions regarding this report, please contact Grant Sprick of ARCADIS at (503) 220-8201 or Robert Truedinger of KMLT at (510) 412-8813.

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Our ref:
WA000804.2013

Sincerely,

ARCADIS U.S., Inc.

for 
Grant V. Sprick
Certified Project Manager II


Rebecca Andresen, L.G.
Associate Vice President

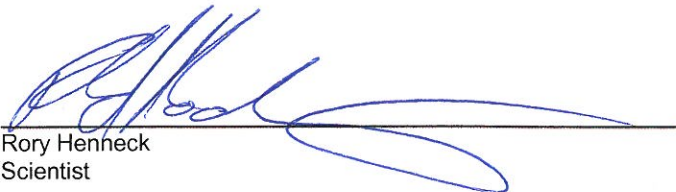


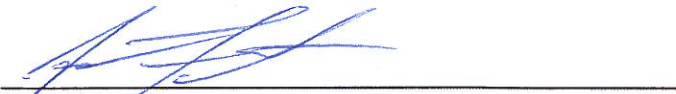
Rebecca K. Andresen

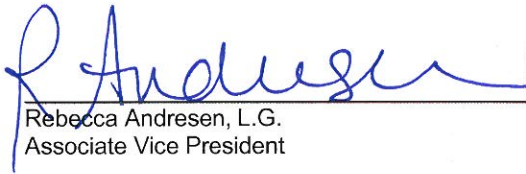
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Third Quarter 2013 Groundwater Monitoring Report

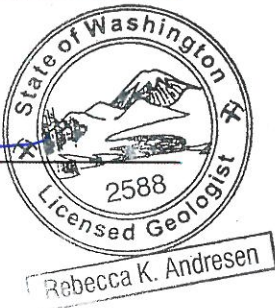
CC:
Mr. Dave Rowland, KMLT, Seattle, WA (CD Copy)
Mr. Robert Truedinger, c/o Stephanie Randall, KMLT, Orange, CA (CD Copy)
Ms. Stephanie Randall, KMLT, Orange, CA (File Copy)



for 
Rory Henneck
Scientist

for 
Grant V. Sprick
Certified Project Manager II


Rebecca Andresen, L.G.
Associate Vice President



Rebecca K. Andresen

**Third Quarter 2013 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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Our Ref.:
WA000804.2013

Date:
September 9, 2013

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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 Third Quarter 2013 groundwater monitoring and sampling event at the Kinder Morgan Liquids Terminals (KMLT), LLC Harbor Island Terminal located in Seattle, Washington. 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 July 29 and 30, 2013. Additionally, low-flow groundwater sampling techniques were utilized 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 2013). The results of the one-month performance monitoring event associated with this remedial action are presented herein.

1.1 Site Description

The site is currently a 14-acre bulk petroleum storage facility located east of 13th Avenue 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 6 to 11 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 (AST) containing refined petroleum products in the B and C yards. A Yard, located at the southern end of the property, consists of the terminal office, a truck loading rack, and other support structures. B Yard, located north of A Yard and south of D Yard, is the site of 15 ASTs and associated piping and is surrounded by a 15-foot high concrete wall. 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. 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. 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 (Antea 2011).

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

Third Quarter 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. The Washington Department of Ecology (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 Third Quarter 2013 sampling event included:

- Measuring depth to water in 43 monitoring wells
- Removal of separate phase hydrocarbons (SPH) absorbent socks in 9 wells
- Purging 14 monitoring wells using low-flow sampling methods
- Collecting groundwater samples from 14 monitoring wells
- Submittal of groundwater samples to Alpha Analytical, Inc. of Sparks, Nevada (Alpha) for laboratory analyses
- Preparing a quarterly groundwater monitoring report

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 one month post remedial construction (one-month). This event was conducted in conjunction with compliance quarterly monitoring on July 29 and 30, 2013 and included:

- Measuring depth to water and SPH in 11 monitoring wells, of which four were included in the compliance monitoring plan
- Collecting field parameters, including dissolved oxygen, oxygen reduction potential, pH, temperature, and specific conductivity from 11 monitoring wells, of which four are included in the compliance monitoring plan
- Purging 11 monitoring wells, using low-flow sampling methods
- Collecting groundwater samples from 11 monitoring wells
- Submittal of groundwater samples to Alpha for laboratory analyses
- Summarize performance monitoring results in the quarterly groundwater monitoring report

2.3 Compliance Monitoring Groundwater Sampling and Analysis

Groundwater samples were collected from eight wells on July 29, 2013 and six wells on July 30, 2013 in accordance with the Reduced Monitoring Plan (Delta 2007).

Monitoring wells were purged using a low-flow peristaltic pump and dedicated tubing. Groundwater quality parameters (temperature, specific conductivity, dissolved oxygen [DO], oxidation reduction potential [ORP], turbidity, and pH) were measured using a Horiba multi parameter meter and flow cells. Monitoring wells were sampled after depth to water, pH, specific conductivity, temperature, ORP, and dissolved oxygen had stabilized. 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 constituents of concern (COCs):

- Total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) according to Northwest Method NWTPH-Gx
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX collectively) according to EPA Method 8260B

The groundwater sample from monitoring well MW-21 was also analyzed for TPH as diesel range organics (DRO) and TPH as heavy-oil (HO) according to Northwest Method NWTPH-Dx.

Blind duplicate samples were collected from groundwater monitoring well A-27. Groundwater analytical results are presented in Table 2. Dissolved oxygen field measurements and MNA parameters are presented in Table 3. Laboratory analytical reports and chain-of-custody documentation are included as Attachment C.

2.4 Performance Monitoring Groundwater Sampling and Analysis

Groundwater samples were collected from eleven wells (A-27, MW-7, MW-9, MW-19, TMW-1, TMW-2, TMW-3, TMW-4, TMW-5, TMW-6, and 11) on July 30, 2013 for the sulfate land application performance monitoring in accordance with the EDR (ARCADIS 2012a) and subsequent RTC (ARCADIS 2012b). Monitoring well 12 was not sampled due to a field error, but will be sampled during future performance monitoring events.

Groundwater monitoring wells were purged and samples were collected as described in section 2.3. Groundwater monitoring field data sheets are included as Attachment B.

Groundwater samples were analyzed for the following COCs:

- TPH-GRO according to Northwest Method NWTPH-Gx
- BTEX according to EPA Method 8260b, as part of the compliance monitoring at wells A-27, MW-7, MW-9 and MW-19

Groundwater samples from performance monitoring wells (A-27, MW-7, MW-9, MW-19, TMW-1, TMW-2, TMW-3, TMW-4, TMW-5, TMW-6, and 11) were also sampled for biogeochemical parameters to support the evaluation of the B and D Yards groundwater remediation. These biogeochemical analyses include:

- Nitrate and Sulfate by EPA Method 300.0
- Methane by Modified Method RSK-175 GC/FID
- Sulfide by Method SM4500-S D
- Total and dissolved Iron by EPA Method 6010

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 one-month performance monitoring event were measured on July 29, 2013 using an electronic oil-water interface probe. No measurable SPH was observed in the wells monitored during these events.

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 5.84 feet amsl (12) and 7.92 feet amsl (MW-16). The groundwater elevation data are presented in Table 1 and a groundwater elevation 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 socks) is performed in these wells. The last time measurable SPH was observed was during the Second Quarter 2012 at monitoring well 12.

No measurable SPH was observed during this event. This is the seventh consecutive quarter with no SPH observed. The absorbent socks were removed from each of the wells listed above. New absorbent socks will be installed in groundwater wells should measurable SPH be observed in future gauging events.

3.2 Compliance Monitoring Groundwater Analytical Results

During the Third Quarter 2013 monitoring event, groundwater samples collected contained the following constituents of concern:

- TPH-GRO concentrations ranging from less than the Method Reporting Limit (MRL [<0.25 mg/L]) to 27 milligrams per liter (mg/L) in monitoring well MW-24
- TPH-DRO concentration of 2.9 mg/L in monitoring well MW-21
- TPH-HO concentration less than the MRL (<0.50 mg/L) in monitoring well MW-21
- Benzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 1.1 mg/L in monitoring well MW-24
- Toluene concentrations ranging from less than the MRL (<0.0005 mg/L) to 0.110 mg/L in monitoring well MW-7
- Ethylbenzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 2.1 mg/L in monitoring well MW-24
- Total xylenes concentrations ranging from less than the MRL (<0.0005 mg/L) to 4.7 mg/L in monitoring well MW-24.

Analytical results for groundwater samples collected from A-21, A-23R, and MW-18 did not contain COC concentrations at or above the method reporting limits.

Groundwater analytical results are presented in Table 2 and a groundwater analytical map is presented as 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 Groundwater Analytical Results

Groundwater samples collected during the one-month performance monitoring event contained TPH-GRO concentrations ranging from less than the MRL (<0.25 mg/L) at monitoring well TMW-1 to 7.8 mg/L at monitoring well TMW-6. Biogeochemical parameters results from the one-month performance monitoring are summarized below:

- Sulfate concentrations ranging from less than the MRL (<0.50 mg/L) to 1,900 mg/L in monitoring well TMW-1
- Nitrate concentrations ranging from less than the MRL (<0.25 mg/L) to 16 mg/L in monitoring well A-27
- Sulfide concentrations ranging from less than the MRL (<0.10 mg/L) to 0.25 mg/L in monitoring well TMW-5
- Methane concentrations ranging from 0.075 mg/L in monitoring well TMW-1 to 20 mg/L in monitoring well MW-7
- Total iron concentrations ranging from 1.0 mg/L in monitoring well 11 to 29 mg/L in monitoring well TMW-2
- Dissolved iron concentrations ranging from less than the MRL (<0.30 mg/L) to 5.0 mg/L in monitoring well TMW-4

Performance monitoring groundwater analytical results are presented in Table 4 and a performance monitoring groundwater analytical map is presented as Figure 5. Laboratory analytical reports and chain-of-custody documentation are included as Attachment C.

3.4 Data Validation

Groundwater samples were processed within their specified hold times. Alpha reported the method and laboratory control samples were within acceptable limits, with the exception of low matrix spike (MS) and matrix spike duplicate recovery for sulfate, low MS recovery for TPH-DRO, and high MS recovery for ethylbenzene. Duplicate samples were collected from A-27 during third quarter monitoring and were both analyzed for TPH-GRO and BTEX. The relative percent difference between analytical

results of the sample and duplicate sample were below 25 percent for all analytes. The detection limits were below site cleanup levels and the surrogate recovery results were within acceptable limits, with the exception of low surrogate recovery for TPH-DRO in the MS.

4. Conclusions

4.1 Compliance Monitoring

The concentrations of COCs observed during the quarterly compliance monitoring event are consistent with concentrations encountered during previous groundwater monitoring events. No measurable SPH was observed during the Third Quarter 2013 sampling event which is the seventh consecutive quarter where no SPH has been observed. Dissolved TPH-GRO concentrations continue to decrease, as evidenced by a decreasing trend in concentrations of TPH-GRO in monitoring wells, including wells A-27, MW-7, MW-19, and MW-23.

Based on a comparison of historical laboratory results and current analytical results for COCs, concentrations remain consistent with results reported previously. The current remedial action has been designed to enhance natural degradation in areas of the site where groundwater COCs exceed site cleanup levels.

4.2 Sulfate Land Application

Sulfate concentrations were elevated in TMW-1 during the one-month performance monitoring event as a result of the sulfate land application. Concentrations are expected to increase in the other performance monitoring wells as the irrigation system continues to supplement monthly rainfall, resulting in the dissolution and percolation of sulfate through the vadose zone and into groundwater. This effect will be further evaluated after the two and three-month performance monitoring events, to be reported in the Fourth Quarter 2013 Groundwater Monitoring Report.

The next scheduled monitoring events are the two-month performance monitoring, three-month performance monitoring, and the fourth quarter groundwater monitoring.

5. References

Antea Group (Antea). November 2011. *Quarterly Groundwater Monitoring Report Third Quarter 2011.*

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

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

ARCADIS. August 2013. *Remedial Action Report – B and D Yards.*

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

Delta. September 4, 2008. *Technical Revision Request – Low-Flow Groundwater Sampling.*

KHM Environmental Management, Inc. (KHM). October 1999. *Compliance Monitoring Plan.*

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	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*	Product thickness <0.01
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-6	02/11/02	--	6.40	0.13	--	Casing Broken
A-6	05/20/02	--	8.13	0.14	--	Casing Broken
A-6	08/27/02	--	7.80	0.45	--	Casing Broken
A-6	11/04/02	--	7.33	0.01	--	Product recovery pump in well
A-6	02/18/03	--	8.50	Sheen	--	Product recovery pump in well
A-6	06/09/03	--	7.45	0.01	--	Repaired broken top of casing
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*	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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-17	02/11/02	9.51	6.09	--	3.42	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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*	Product thickness <0.01
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
A-22R	09/04/08	14.11	--	--	--	Sock in well
A-22R	12/04/08	14.11	--	--	--	Sock in well
A-22R	03/04/09	14.11	--	--	--	Sock in well
A-22R	06/01/09	14.11	--	--	--	Sock in well
A-22R	09/21/09	14.11	--	--	--	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-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	--	--	--	--	Could not access
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	--	--	--	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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	Not Measured
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-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-26	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-26	Destroyed during construction of utility trench					

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-29	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-29	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	--	--	--	Well 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

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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
3	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	--	--	--	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	--	--	--	Casing Broken
4	09/11/06	11.01	--	--	--	Casing Broken
4	12/11/06	11.01	--	--	--	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
5	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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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 Located
12	11/18/03	9.79	--	--	--	Not 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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	
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	--	--	--	--	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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	--	--	--	Construction activities obstructing well
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	NM - 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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	3.38	--	6.37	
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	Baseline monitoring event
MW-10D	03/27/01	--	--	--	--	Destroyed during construction activities in 2000
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-13	02/11/02	--	--	--	--	Destroyed during construction activities
MW-13	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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	--	Well abandoned on 5/25/2012
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
MW-14	04/08/13	11.44	2.18	--	9.26	
MW-14	07/29/13	11.44	3.90	--	7.54	
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	Not Measured
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-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	--	--	--	Inaccessible, under pipe stockpile
MW-19	12/12/05	11.39	--	--	--	Inaccessible, under pipe stockpile
MW-19	03/13/06	11.39	--	--	--	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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	--	--	--	Overflowed when well cap removed
MW-20	06/09/03	7.37	--	--	--	Overflowed when well cap removed
MW-20	09/15/03	11.72	--	--	--	Overflowed when well cap removed
MW-20	11/18/03	11.72	--	--	--	Overflowed when well cap removed
MW-20	02/24/04	11.72	--	--	--	Overflowed when well cap removed
MW-20	05/10/04	11.72	--	--	--	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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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*	Product thickness <0.01
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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-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	
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	--	--	--	Dry
E-1	11/04/02	--	--	--	--	Dry/Damaged Well
E-1	06/11/03	--	--	--	--	Abandoned
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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
SH-02	02/11/02	--	--	--	--	Destroyed during construction activities
SH-02	Destroyed during construction activities					
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-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	

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	7.89	--	6.00	
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	
MW-07	01/13/97	7.66	--	--	--	Destroyed during construction activities

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet amsl)	Comments
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	--	--	--	--	Inaccessible; covered with asphalt
MW-07R	06/09/03	--	--	--	--	Inaccessible; covered with asphalt
MW-07R	06/11/03	--	--	--	--	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	
TMW-1	06/21/13	--	3.44	--	--	Baseline monitoring event
TMW-1	07/29/13	--	3.72	--	--	
TMW-2	06/21/13	--	3.83	--	--	Baseline monitoring event
TMW-2	07/29/13	--	3.94	--	--	
TMW-3	06/21/13	--	3.81	--	--	Baseline monitoring event
TMW-3	07/29/13	--	3.91	--	--	
TMW-4	06/21/13	--	3.50	--	--	Baseline monitoring event
TMW-4	07/29/13	--	3.75	--	--	
TMW-5	06/21/13	--	3.24	--	--	Baseline monitoring event

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 (feet BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation [^] (feet amsl)	Comments
TMW-5	07/29/13	--	3.31	--	--	
TMW-6	06/21/13	--	2.93	--	--	Baseline monitoring event
TMW-6	07/29/13	--	2.91	--	--	

Notes:

ft = Feet

amsl = Above Mean Sea Level

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

Not measured = Separate-phase hydrocarbon recovery unit in well.

Wells MW-10D and MW-11D are 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 SPH density

Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	--	--	
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	--	--	
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-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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	--	--	
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	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	--	--	
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	--	--	
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	--	<0.005	
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	0.36	<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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	<0.005	
A-14R	05/22/02	<0.25	<0.5	<0.5	0.00053	0.0021	<0.0005	0.00054	0.02	<0.005	
A-14R	08/28/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-14R	11/06/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-14R	02/20/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-14R	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.020	<0.005	
A-14R	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.025	<0.005	
A-14R	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.032	<0.005	
A-14R	02/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.018	<0.005	
A-14R	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0072	<0.0050	
A-14R	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	<0.0050	
A-14R	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
A-14R	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	<0.25	<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	<0.005	
A-21	05/22/02	<0.25	<0.5	<0.5	0.00061	0.0017	<0.0005	0.00057	<0.005	<0.005	
A-21	08/29/02	<0.25	0.76	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-21	11/06/02	<0.25	0.37	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
A-21	02/19/03	<0.25	<0.5	<0.5	0.0013	0.0018	<0.0005	0.00061	<0.005	<0.005	
A-21	06/10/03	0.25	<0.25	<0.25	0.0082	0.00058	<0.0005	<0.0005	0.062	<0.0050	
A-21	09/16/03	<0.25	<0.25	<0.50	0.0034	<0.0005	<0.0005	<0.0005	0.0085	<0.005	
A-21	11/19/03	0.47	<0.25	<0.50	0.061	0.0019	<0.0005	0.0029	0.0067	<0.005	
A-21	02/25/04	0.63	<0.50	<0.50	0.013	0.00066	0.045	0.0016	<0.0050	<0.0050	
A-21	05/12/04	0.50	<0.25	<0.50	0.0019	<0.0005	0.0042	0.00072	<0.0050	<0.0050	
A-21	08/25/04	0.26	<0.25	<0.50	0.0015	<0.0005	<0.0005	0.0015	<0.0050	<0.0050	
A-21	12/14/04	0.99	<0.25	<0.50	0.061	0.0025	0.022	0.0083	<0.0050	<0.0050	
A-21	03/10/05	1.5	0.26	<0.50	0.024	0.0021	0.0025	0.011	0.02	<0.0050	
A-21	06/07/05	1.2	0.35	<0.50	0.0076	0.00084	0.00077	0.0043	<0.0050	<0.0050	
A-21	09/20/05	1.3	<0.25	<0.50	0.011	0.0012	0.00066	0.0048	<0.0050	<0.0050	
A-21	12/13/05	1.6	<0.25	<0.50	0.017	0.00160	0.0015	0.0052	<0.0050	<0.0050	
A-21	03/15/06	0.97	<0.25	<0.50	0.0098	0.00097	0.0023	0.0033	<0.0050	<0.0050	
A-21	06/08/06	0.82	<0.25	<0.50	0.0023	0.00059	<0.0005	0.0019	<0.0050	<0.0050	
A-21	09/12/06	0.85	<0.25	<0.50	0.0019	<0.0005	<0.0005	0.0016	<0.0050	<0.0050	

Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	<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	<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	<0.0040	
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	--	--	
A-23R	05/30/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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-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	--	<0.0050	
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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	--	
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	--	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	07/30/13	1.5	--	--	0.058	0.0033	0.040	0.015	--	--	Duplicate of A-27
A-28R	02/14/02	5.3	2.7	<0.5	0.66	0.027	0.42	0.20	0.035	<0.005	
A-28R	05/22/02	3.1	6.7	<0.5	0.14	0.010	0.20	0.092	0.05	<0.005	
A-28R	08/29/02	4.0	6.0	<0.5	0.15	0.019	0.23	0.078	0.032	<0.005	
A-28R	11/06/02	3.4	1.8	<0.5	0.47	0.015	0.053	0.050	0.028	<0.005	
A-28R	02/19/03	3.5	4.6	<0.5	0.46	0.015	0.051	0.050	0.013	<0.005	
A-28R	06/10/03	3.7	2.9	<0.25	0.31	0.0081	0.085	0.051	0.064	<0.005	
A-28R	09/16/03	3.8	2.0	<0.50	1.0	0.013	0.075	0.048	0.17	<0.005	
A-28R	11/19/03	4.9	<0.25	<0.50	0.58	0.012	0.059	0.064	0.11	<0.005	
A-28R	02/25/04	5.1	1.7	<0.50	0.63	0.0093	0.19	0.076	0.008	<0.0050	
A-28R	05/12/04	6.5	2.6	<0.50	0.96	0.012	0.20	0.058	<0.0050	<0.0050	
A-28R	08/25/04	5.9	0.88	<0.50	2.1	0.018	0.050	0.053	0.043	<0.0050	
A-28R	12/14/04	7.6	3.0	<0.50	1.4	0.015	0.073	0.062	0.025	<0.0050	
A-28R	03/10/05	10	0.76	<0.50	1.9	0.019	0.077	0.064	0.0078	<0.0050	
A-28R	06/07/05	6.4	1.2	<0.50	2.1	0.015	0.069	0.048	0.0068	<0.0050	
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	<0.0050	
A-28R	03/15/06	4.6	<0.25	<0.50	0.80	0.012	0.11	0.035	<0.0050	<0.0050	
A-28R	06/08/06	4.2	0.49	0.73	0.87	0.013	0.070	0.035	0.019	<0.0050	
A-28R	09/12/06	5.2	<0.25	<0.50	1.0	0.015	0.048	0.036	0.016	<0.0050	
A-28R	12/12/06	4.0	0.57	<0.50	0.30	0.0095	0.027	0.028	<0.0050	<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	--	
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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	--	
A-28R	02/28/13	2.6	--	--	0.062	<0.0025 V	0.044	0.0059	--	--	
A-28R	04/10/13	3.2	--	--	0.035	0.0013	0.030	0.0042	<0.0050	--	
A-28R	07/29/13	2.5	--	--	0.043	0.0018	0.019	0.0034	--	--	
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	--	--	--	--	--	--	--	--	
12	06/24/13	4.1	5.3	--	0.037	0.045	0.130	0.530	--	--	Baseline monitoring event
12	07/30/13	--	--	--	--	--	--	--	--	--	
MW-1	02/13/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-1	05/21/02	<0.25	1.9	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-1	08/28/02	<0.25	1.0	<0.5	0.0013	0.0067	0.00052	0.0016	<0.005	<0.005	
MW-1	11/05/02	<0.25	0.87	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.021	<0.005	
MW-1	02/19/03	<0.25	1.9	<0.5	<0.0005	0.00058	<0.0005	<0.0005	<0.005	<0.005	
MW-1	06/10/03	<0.25	1.1	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-1	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	02/25/04	<0.25	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	05/11/04	<0.25	0.87	<0.50	<0.0005	0.00068	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	08/25/04	0.83	0.40	<0.50	<0.0005	<0.0005	0.00065	<0.0005	<0.0050	<0.0050	
MW-1	12/15/04	<0.25	0.38	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	03/09/05	<0.25	0.63	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	06/08/05	<0.25	0.80	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	09/21/05	<0.25	0.40	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	06/07/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-1	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	<0.0050	
MW-1	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	--r	
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	--	
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	<0.25	<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	<0.005	
MW-2	05/21/02	<0.25	0.66	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-2	08/29/02	<0.25	0.91	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-2	11/05/02	<0.25	0.73	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-2	02/19/03	<0.25	0.74	<0.5	<0.0005	0.00062	<0.0005	<0.0005	0.028	<0.005	
MW-2	06/10/03	<0.25	0.61	<0.25	<0.0005	0.00071	<0.0005	<0.0005	0.026	0.026	

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Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	--r	
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	--	--	
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	0.92	<0.50	<0.0025 V	<0.0025 V	<0.0025 V	<0.0025 V	--	--	
MW-5	02/13/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-5	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.01	<0.005	
MW-5	08/29/02	<0.25	1.2	<0.5	<0.0005	0.0018	<0.0005	0.00063	<0.005	<0.005	
MW-5	11/05/02	<0.25	1.6	<0.5	0.0055	0.0016	<0.0005	0.00056	<0.005	<0.005	
MW-5	02/20/03	<0.25	<0.25	<0.5	<0.0005	0.00066	<0.0005	<0.0005	<0.005	<0.005	
MW-5	06/11/03	<0.25	0.36	<0.25	<0.0005	0.00079	<0.0005	<0.0005	<0.005	<0.005	
MW-5	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011	<0.0050	
MW-5	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0086	<0.0050	
MW-5	02/24/04	<0.25	<0.50	<0.50	<0.0005	0.0014	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.11	<0.0050	
MW-5	06/08/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-5	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012	<0.0050	
MW-5	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0099	<0.0050	
MW-5	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.013	<0.0050	
MW-5	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0088	<0.0050	
MW-5	06/20/07	--	--	--	--	--	--	--	--	--	Not Sampled
MW-5	06/04/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0094	--r	
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	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0073	--	
MW-6	02/13/02	0.97	1.1	<0.5	0.014	0.00070	<0.0005	0.00065	<0.005	<0.005	

Table 2

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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-6	05/22/02	1.1	2.5	<0.5	0.035	0.0012	0.0024	0.00072	<0.005	<0.005	
MW-6	08/29/02	0.58	6.4	<0.5	0.0014	<0.001	<0.001	<0.001	<0.005	<0.005	
MW-6	11/05/02	0.59	7.3	<0.5	0.064	<0.001	<0.001	0.0016	0.02	<0.005	
MW-6	02/19/03	0.54	1.7	<0.5	0.0062	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-6	06/10/03	0.70	1.9	<0.25	0.025	0.0011	0.00052	0.00051	<0.005	<0.005	
MW-6	09/16/03	0.68	<0.50	<0.50	<0.0005	<0.0005	0.00053	<0.0005	0.019	<0.0050	
MW-6	11/19/03	0.44	1.6	<0.50	0.0095	0.00067	<0.0005	0.00051	<0.0050	<0.0050	
MW-6	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	05/11/04	1.0	0.67	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	08/25/04	<0.25	0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	12/14/04	0.82	0.81	<0.50	0.0080	<0.0005	<0.0005	<0.0005	0.011	<0.0050	
MW-6	03/10/05	1.0	0.42	<0.50	0.0011	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	06/07/05	0.92	<0.25	<0.50	0.0014	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	09/20/05	0.91	<0.25	<0.50	<0.0005	<0.0005	0.00062	<0.0005	<0.0050	<0.0050	
MW-6	12/13/05	1.2	0.38	<0.50	0.0032	<0.0005	0.00050	<0.0005	<0.0050	<0.0050	
MW-6	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	09/12/06	0.71	<0.25	<0.50	<0.0005	0.00055	<0.0005	<0.0005	<0.0050	<0.0050	
MW-6	12/12/06	<0.25	<0.25	<0.50	<0.0005	0.00055	<0.0005	<0.0005	<0.0050	<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	--	--	
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	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
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-7	02/14/02	13	7.5	<0.5	0.20	0.24	0.57	1.8	0.035	<0.005	
MW-7	05/21/02	6.6	11	<0.5	0.16	0.089	0.43	0.66	0.04	<0.005	
MW-7	08/29/02	2.9	5.7	<0.5	0.12	0.042	0.24	0.11	0.047	<0.005	
MW-7	11/05/02	0.90	5.9	<0.5	0.021	0.0022	0.0040	0.0066	0.041	<0.005	
MW-7	02/20/03	9.7	11	<0.5	0.12	0.13	0.33	1.4	0.11	0.038	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-7	06/11/03	5.7	8.7	<0.25	0.13	0.092	0.26	0.52	0.081	0.015	
MW-7	09/17/03	1.4	12	<0.50	0.078	0.031	0.15	0.089	0.11	0.014	
MW-7	11/20/03	0.26	0.79	<0.50	<0.0005	<0.0005	<0.0005	0.035	0.019	0.0063	
MW-7	02/26/04	15	21	<0.50	0.11	0.34	0.63	3.8	0.034	0.0083	
MW-7	05/11/04	6.3	11	<0.50	0.059	0.15	0.31	1.3	0.0083	0.0070	
MW-7	08/26/04	7.1	20	<0.50	0.054	0.22	0.34	1.7	0.067	0.0067	
MW-7	12/15/04	18	4.4	<0.50	0.14	0.37	0.53	3.0	0.19	0.040	
MW-7	03/09/05	3.5	2.1	<0.50	0.045	0.034	0.090	0.27	0.079	0.010	
MW-7	06/08/05	2.9	2.3	<0.50	0.054	0.050	0.11	0.44	0.069	0.010	
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	0.016	
MW-7	03/14/06	15	0.50	<0.50	0.12	0.26	0.50	3.6	0.026	<0.0050	
MW-7	06/07/06	17	0.85	<0.50	0.12	0.35	0.69	4.5	0.023	<0.0050	
MW-7	09/13/06	2.4	0.32	<0.50	0.050	0.055	0.19	0.39	0.021	0.056	
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	<0.0050	
MW-7	09/24/07	6.6	--	--	0.023	0.094	0.27	2.0	--	--	
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	<0.0050	
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*	<0.0050	
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*	<0.0050	
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	<0.0050	
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	<0.0050	
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	0.550	--	--	
MW-7	02/28/13	1.3	--	--	<0.0015 V	0.007	0.007	0.190	--	--	
MW-7	04/09/13	8.1	--	--	<0.005 V	0.070	0.250	1.400	0.0097	<0.0050	
MW-7	04/09/13	5.7	--	--	0.0071	0.072	0.240	1.200	--	--	Duplicate of MW-7
MW-7	06/21/13	4.0	0.27	--	0.0059	0.064	0.280	1.100	--	--	Baseline monitoring event
MW-7	07/30/13	7.2	--	--	0.016	0.110	0.290	1.600	--	--	
MW-8	02/14/02	<0.25	8.1	<5.0	<0.0005	0.00086	<0.0005	<0.0005	0.03	<0.005	
MW-8	08/29/02	<0.25	7.5	<0.5	<0.0005	0.00082	<0.0005	<0.0005	0.017	<0.005	
MW-8	11/05/02	<0.25	1.7	1.2	<0.0005	<0.0005	<0.0005	<0.0005	0.012	<0.005	
MW-8	02/20/03	<0.25	6.6	<0.5	<0.0005	0.00055	<0.0005	0.0024	0.029	<0.005	
MW-8	06/11/03	<0.25	3.8	<0.25	0.0013	<0.001	<0.001	<0.001	0.012	<0.005	
MW-8	09/17/03	<0.25	3.3	0.77	<0.0005	<0.0005	<0.0005	<0.0005	0.03	<0.0050	
MW-8	11/20/03	<0.25	2.5	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	

Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
MW-8	02/26/04	<0.25	2.7	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.016	<0.0050	
MW-8	05/11/04	<0.25	1.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-8	08/26/04	<0.25	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-8	12/15/04	<0.25	1.5	<0.50	<0.001	<0.001	<0.001	<0.001	0.0071	<0.0050	
MW-8	03/09/05	<0.25	1.6	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0094	<0.0050	
MW-8	06/08/05	<0.25	1.8	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.014	<0.0050	
MW-8	09/21/05	<0.25	0.97	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011	<0.0050	
MW-8	12/14/05	<0.25	1.1	0.58	<0.001	<0.001	<0.001	0.0013	0.0060	<0.0050	
MW-8	03/14/06	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011	<0.0050	
MW-8	06/07/06	<0.25	0.88	0.61	<0.0005	<0.0005	<0.0005	<0.0005	0.0093	<0.0050	
MW-8	09/13/06	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012	<0.0050	
MW-8	12/13/06	<0.25	0.82	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0060	<0.005	
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	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.046	--	
MW-9	06/11/03	6.0	13	<0.50	0.0031	0.036	0.076	0.60	0.022	<0.005	
MW-9	09/17/03	5.3	39	0.72	0.026	0.027	0.090	0.45	0.0095	<0.0050	
MW-9	11/20/03	8.5	19	<0.50	<0.005	0.018	0.14	1.1	0.0096	<0.0050	
MW-9	02/26/04	4.1	28	<0.50	0.022	0.0072	0.025	0.47	0.0083	<0.0050	
MW-9	05/11/04	4.1	5.8	<0.50	0.0023	0.0093	0.081	0.44	<0.0050	<0.0050	
MW-9	08/26/04	4.2	6.2	<0.50	0.0066	0.025	0.13	0.43	0.0099	<0.0050	
MW-9	12/15/04	5.4	7.6	<0.50	<0.0025	0.011	0.12	0.39	0.0094	<0.0050	
MW-9	03/09/05	4.5	3.5	<0.50	0.0037	0.0047	0.042	0.18	0.021	<0.0050	
MW-9	06/08/05	3.2	3.9	<0.50	0.0035	0.0087	0.069	0.17	0.0076	<0.0050	
MW-9	09/21/05	2.3	2.6	<0.50	0.0070	0.0077	0.033	0.12	0.0076	<0.0050	
MW-9	12/14/05	4.7	1.2	<0.50	0.0078	0.010	0.12	0.38	0.0095	<0.0050	
MW-9	03/14/06	2.4	1.4	<0.50	0.0024	0.0034	0.018	0.12	0.013	<0.0050	
MW-9	06/07/06	<0.25	1.0	<0.50	0.0011	0.023	0.049	0.21	0.021	<0.0050	
MW-9	09/13/06	1.8	0.46	<0.50	0.0044	0.016	0.063	0.064	0.010	<0.0050	
MW-9	12/13/06	2.6	3.8	<0.50	<0.0025	<0.0025	0.024	0.19	0.025	<0.0050	
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	--	--	
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	--	--	

Table 2



Groundwater Analytical Results
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 2720 13th Avenue Southwest
 Seattle, Washington

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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-12	06/19/01	<0.05	1.6	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	<0.004	
MW-12	06/20/01	<0.06	1.7	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	<0.004	
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	<0.005	
MW-12R	05/21/02	<0.25	2.5	<0.5	0.080	0.0013	<0.0005	0.00066	<0.005	<0.005	
MW-12R	08/28/02	<0.25	2.1	<0.5	0.028	0.0059	<0.0005	0.0015	<0.005	<0.005	
MW-12R	11/05/02	<0.25	1.3	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-12R	02/19/03	0.26	2.5	<0.5	0.19	0.0012	<0.001	<0.001	<0.005	<0.005	
MW-12R	06/10/03	0.41	1.3	<0.25	0.11	0.00055	<0.0005	<0.0005	<0.005	<0.005	
MW-12R	09/16/03	<0.25	0.67	<0.50	0.0021	<0.0005	<0.0005	<0.0005	0.013	<0.0050	
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	<0.0050	
MW-12R	05/12/04	0.56	0.74	<0.50	0.20	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-12R	08/26/04	0.35	0.50	<0.50	0.089	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-12R	12/15/04	<0.25	0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	03/09/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	06/08/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-12R	09/21/05	0.26	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-12R	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	12/13/06	<0.25	0.27	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-12R	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
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	<0.25	<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	<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	<0.005	
MW-13R	05/21/02	<0.25	3.5	<0.5	0.0025	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	08/28/02	<0.25	2.4	<0.5	<0.0005	0.0019	<0.0005	0.00070	<0.005	<0.005	
MW-13R	11/05/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	02/19/03	<0.25	1.7	<0.5	0.00078	0.0032	<0.0005	0.00083	<0.005	<0.005	
MW-13R	06/10/03	<0.25	0.76	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
MW-13R	09/16/03	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0078	<0.0050	
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	<0.0050	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-13R	05/12/04	<0.25	0.61	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	08/26/04	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	12/15/04	<0.25	0.91	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	03/09/05	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	06/08/05	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-13R	09/21/05	<0.25	0.39	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-13R	06/07/06	<0.25	<0.25	<0.50	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.0050	
MW-13R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-13R	12/13/06	<0.25	0.33	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0077	<0.0050	
MW-13R	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	-I	
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	--	--	
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	--	-I	
MW-14	09/08/08	2.5	--	--	0.0024	0.0070	0.17	0.075	--	--	
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	--	--	

Table 2



Groundwater Analytical Results
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 2720 13th Avenue Southwest
 Seattle, Washington

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	--	<0.0005	<0.0005	0.0028	0.0017	--	--	
MW-14	11/08/12	<0.25	--	--	<0.005	<0.005	<0.005	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-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	--	--	
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	<0.25	<0.50	<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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	--	
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	0.280	0.180	--	--	
MW-19	02/28/13	8.1	--	--	0.045	0.130	0.440	0.770	--	--	
MW-19	04/09/13	6.9	--	--	0.029	0.150	0.320	0.570	--	--	
MW-19	06/21/13	2.8	1.1	--	0.019	0.017	0.310	0.081	--	--	Baseline monitoring event
MW-19	07/30/13	4.4	--	--	0.0086	0.0051	0.160	0.013	--	--	
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	--	--	
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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	<0.25	<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	--	--	
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	--	--	
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	<0.0025	<0.0025	<0.0025	--	--	
MW-21	11/08/12	<0.25	0.29	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
MW-21	02/28/13	<0.25	0.90	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	04/10/13	<0.25	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-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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	--	--	
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	--	<0.005	
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	0.97	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	--	
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	<0.0050	
MW-23	05/12/04	4.2	1.3	<0.50	1.1	0.013	0.046	0.048	<0.0050	<0.0050	
MW-23	08/26/04	5.3	0.72	<0.50	1.1	0.023	0.20	0.17	0.014	<0.0050	
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	<0.0050	
MW-23	03/15/06	7.0	0.28	<0.50	1.4	0.015	0.19	0.21	<0.0050	<0.0050	
MW-23	06/08/06	5.2	1.3	<0.50	1.4	0.014	0.11	0.11	<0.0050	<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	<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	--	--	
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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
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	<0.0010	0.065	0.0038	--	--	
MW-23	02/28/13	2.6	--	--	0.034	<0.0025 V	0.160	0.010	--	--	
MW-23	04/10/13	0.54	--	--	0.015	<0.0010	0.015	0.0013	<0.0050	--	
MW-23	07/29/13	1.7	--	--	0.0097	<0.0010 V	0.025	0.0011	--	--	
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	<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	<0.0050	
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	--	--	
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	--	--	

Table 2



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

Sample ID	Date	TPH-Gasoline mg/l	TPH-Diesel mg/l	TPH-Heavy-Oil mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l	Total Lead mg/l	Dissolved Lead mg/l	Comments
MW-24	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	--	--	Duplicate of MW-24
MW-24	02/28/13	6.6	--	--	0.290	<0.010 V	0.390	0.840	--	--	
MW-24	02/28/13	9.0	--	--	0.480	0.016	0.590	1.300	--	--	Duplicate of MW-24
MW-24	04/10/13	23	--	--	1.20	0.061	1.7	4.1	0.010	--	
MW-24	04/10/13	20	--	--	1.10	0.048	0.22	3.80	--	--	Duplicate of MW-24
MW-24	07/29/13	27	--	--	1.10	0.059	2.10	4.70	--	--	
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	<0.0050	
MW-25	05/12/04	<0.25	1.6	<0.50	<0.0005	<0.0005	0.0034	<0.0005	<0.0050	<0.0050	
MW-25	08/26/04	<0.25	0.27	<0.50	0.013	<0.0005	<0.0005	<0.0005	0.034	0.0079	
MW-25	12/14/04	<0.25	1.4	<0.50	0.0035	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-25	03/10/05	0.31	3.7	<0.50	0.0014	<0.0005	0.00064	<0.0005	<0.0050	<0.0050	
MW-25	06/07/05	0.40	3.2	<0.50	<0.001	<0.001	0.0014	<0.001	<0.0050	<0.0050	
MW-25	09/20/05	0.30	1.4	<0.50	0.0016	<0.0005	<0.0005	<0.0005	0.059	<0.0050	
MW-25	12/13/05	<0.25	1.2	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-25	03/15/06	<0.25	1.0	<0.50	0.0019	<0.001	<0.001	<0.001	<0.0050	<0.0050	
MW-25	06/08/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-25	09/12/06	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-25	12/12/06	<0.25	0.86	<0.50	0.0052	<0.0005	<0.0005	<0.0005	<0.0050	<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	--r	
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	<0.25	<0.50	0.0013	<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	<0.004	
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	<0.005	
SH-02R	05/21/02	<0.25	2.4	<0.5	0.037	<0.0005	<0.0005	<0.0005	0.005	<0.005	
SH-02R	08/28/02	<0.25	4.3	<0.5	0.087	0.0038	0.00061	0.0023	0.006	<0.005	
SH-02R	11/05/02	<0.25	1.1	<0.5	0.016	<0.0005	<0.0005	<0.0005	0.005	<0.005	
SH-02R	02/19/03	<0.25	<0.5	<0.5	<0.0005	0.00086	<0.0005	<0.0005	<0.005	<0.005	
SH-02R	06/10/03	<0.25	0.97	<0.25	<0.0005	0.00051	<0.0005	<0.0005	0.0059	<0.005	
SH-02R	09/16/03	<0.25	3.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.010	<0.0050	
SH-02R	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	05/12/04	<0.25	0.74	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	08/26/04	<0.25	0.58	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	06/08/05	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	09/21/05	<0.25	0.58	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	12/14/05	<0.25	0.30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0078	<0.0050	
SH-02R	03/14/06	<0.25	0.30	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0072	<0.0050	
SH-02R	06/07/06	<0.25	0.59	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050	
SH-02R	09/13/06	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0050	
SH-02R	12/13/06	<0.25	0.49	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-02R	06/20/07	<0.25	0.77	<0.50	<0.0010	<0.0010	<0.0010	0.0016	<0.0050	--	

Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
SH-02R	06/05/08	<0.25	0.28	<0.50	<0.0005	<0.0005	<0.0005	0.00073	<0.0050	-r	
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	<0.25	<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	<0.004	
SH-05R	05/21/02	0.71	11	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.005	
SH-05R	08/28/02	0.77	10	<0.5	<0.0005	0.0015	<0.0005	<0.0005	0.006	<0.005	
SH-05R	11/05/02	1.4	7.1	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.008	<0.005	
SH-05R	02/19/03	0.80	6.8	<0.5	<0.001	0.0016	<0.001	<0.001	<0.005	<0.005	
SH-05R	06/10/03	1.1	45	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	0.04	<0.005	
SH-05R	09/16/03	<0.25	23	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.074	<0.0050	
SH-05R	11/19/03	0.62	19	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.075	<0.0050	
SH-05R	02/25/04	<0.25	5.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	05/12/04	0.43	4.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<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	<0.0050	
SH-05R	03/09/05	0.78	4.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	06/08/05	0.32	4.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	09/21/05	0.61	2.8	1.0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	12/14/05	0.78	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	03/14/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0074	<0.0050	
SH-05R	06/07/06	<0.25	1.4	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
SH-05R	09/13/06	0.34	0.56	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
SH-05R	12/13/06	<0.50	1.9	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	<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	--r	
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	<0.005	
MW-07R	05/21/02	<0.25	2.1	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.005	<0.005	
MW-07R	08/28/02	<0.25	2.4	<0.5	<0.0005	0.0028	<0.0005	0.0012	0.006	<0.005	
MW-07R	11/05/02	<0.25	3.7	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<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	<0.0050	
MW-07R	11/19/03	<0.25	2.1	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.020	<0.0050	
MW-07R	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	05/12/04	<0.25	0.48	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	08/26/04	<0.25	0.42	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.0050	
MW-07R	12/15/04	<0.25	0.85	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0076	<0.0050	
MW-07R	03/09/05	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	06/08/05	<0.25	0.46	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	09/21/05	<0.25	0.70	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	03/14/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
MW-07R	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	<0.0050	
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	<0.0050	

Table 2



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

Sample ID	Date	TPH-Gasoline	TPH-Diesel	TPH-Heavy-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Dissolved Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
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	<0.25	<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	--	--	0.160	0.010	0.019	0.036	--	--	
TMW-B1	02/28/13	14	--	--	0.026	<0.010 V	0.500	0.870	--	--	

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

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

o = Reporting limits were increased due to sample foaming.

V = Reporting limits were increased due to high concentrations of target analytes.

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.

r = Original consultant report unavailable.

Table 3



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

Sample ID	Date	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	04/10/13	0.00	--	--	--	--	--	--	--	
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-8	04/10/13	0.00	--	--	--	--	--	--	--	
A-10	02/14/02	2.50	3	--	--	5.1	--	77.00	0.2	
A-10	05/22/02	4.50	7.4	--	--	17	--	49.00	0.1	
A-10	08/28/02	1.40	5.7	--	--	16	--	30.00	0.6	
A-10	11/06/02	2.00	5.9	--	--	15	--	10.00	0.3	
A-10	02/20/03	2.70	1.0	--	--	22	--	86	<0.1	
A-10	06/10/03	1.40	1.60	--	--	17.00	--	63.00	0.1	
A-10	09/17/03	1.70	3.20	--	--	47.00	--	12.00	0.6	
A-10	11/20/03	1.40	0.10	--	--	4.90	--	3.70	0.3	
A-10	02/26/04	1.50	0.24	--	--	5.10	--	61.00	0.2	
A-10	05/12/04	0.60	--*a	--	--	30.00	--	10.00	<0.10	
A-10	08/25/04	1.65	0.75	--	--	6.20	--	57.00	0.12	
A-10	12/14/04	2.50	0.093	--	--	<0.050	--	8.80	<0.10	
A-10	03/10/05	2.58	6.60	--	--	12.00	--	260.00	<0.10	
A-10	06/07/05	1.51	1.00	--	--	3.40	--	480.00	16	
A-10	09/20/05	2.10	2.40	--	--	5.60	--	320.00	0.23	
A-10	12/13/05	2.20	0.067	--	--	<0.050	--	56.00	<0.10	
A-10	03/15/06	2.20	2.50	--	--	42.00	--	60.00	0.18	
A-10	06/08/06	1.00	1.60	--	--	7.80	--	4.30	0.22	
A-10	09/12/06	1.60	1.40	--	--	15.00	--	140.00	0.18	

Table 3



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

Sample ID	Date	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	12/12/06	2.00	0.088	--	--	2.00	--	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-10	04/10/13	0.00	--	--	--	--	--	--	--	
A-14R	02/14/02	7.50	0.058	--	--	2.4	--	190.00	0.2	
A-14R	05/22/02	4.10	0.026	--	--	1.1	--	210.00	0.1	
A-14R	08/28/02	1.50	0.034	--	--	0.7	--	290.00	<0.1	
A-14R	11/06/02	2.30	0.054	--	--	0.4	--	290.00	0.1	
A-14R	02/20/03	2.90	0.26	--	--	<0.2	--	300	<0.1	
A-14R	06/10/03	2.00	0.21	--	--	2.20	--	220.00	0.3	
A-14R	09/17/03	1.90	2.40	--	--	3.40	--	240.00	0.2	
A-14R	11/20/03	1.80	0.45	--	--	2.40	--	250.00	<0.1	
A-14R	02/26/04	1.40	3.30	--	--	0.31	--	190.00	0.1	
A-14R	05/12/04	2.30	1.40	--	--	<0.050	--	130.00	<0.10	
A-14R	08/25/04	3.22	4.30	--	--	0.66	--	200.00	<0.10	
A-14R	12/14/04	3.00	3.50	--	--	1.00	--	230.00	<0.10	
A-14R	03/10/05	2.15	1.30	--	--	2.40	--	290.00	<0.10	
A-14R	06/07/05	1.00	0.28	--	--	0.16	--	220.00	<0.2	
A-14R	09/20/05	--	--	--	--	--	--	--	--	Not Sampled
A-14R	12/13/05	1.10	1.60	--	--	3.70	--	150.00	<0.10	
A-14R	03/15/06	1.10	0.82	--	--	0.14	--	80.00	<0.10	
A-14R	06/08/06	2.40	1.50	--	--	0.53	--	38.00	<0.10	
A-14R	09/12/06	2.00	0.19	--	--	0.80	--	110.00	<0.10	
A-14R	06/19/07	1.90	--	--	--	--	--	--	--	
A-14R	12/12/07	2.90	1.2	--	--	0.76	--	99.00	<0.10	
A-14R	06/03/08	1.90	--	--	--	--	--	--	--	
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-14R	04/10/13	0.00	--	--	--	--	--	--	--	
A-21	02/14/02	0.20	0.27	--	--	40.00	--	76.00	<0.1	
A-21	05/22/02	4.20	0.18	--	--	32.00	--	57.00	<0.1	
A-21	08/29/02	2.10	0.31	--	--	33.00	--	41.00	0.3	
A-21	11/06/02	1.60	0.64	--	--	32.00	--	32.00	<0.1	
A-21	02/19/03	1.90	1.60	--	--	28.00	--	2.90	0.1	
A-21	06/10/03	1.30	2.80	--	--	31.00	--	0.30	0.2	
A-21	09/16/03	1.60	4.10	--	--	33.00	--	5.30	0.7	
A-21	11/19/03	1.70	5.60	--	--	26.00	--	16.00	0.2	
A-21	02/25/04	2.10	2.60	--	--	31.00	--	1.20	0.4	
A-21	05/12/04	0.80	1.80	--	--	33.00	--	0.79	<0.10	
A-21	08/25/04	1.44	5.80	--	--	16.00	--	2.40	0.11	

Table 3



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

Sample ID	Date	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	12/14/04	2.72	11.00	--	--	4.60	--	0.74	0.12	
A-21	03/10/05	1.50	8.50	--	--	19.00	--	0.79	<0.10	
A-21	06/07/05	1.50	3.80	--	--	3.30	--	<0.50	0.7	
A-21	09/20/05	2.60	6.10	--	--	27.00	--	<0.50	<0.10	
A-21	12/13/05	2.50	7.50	--	--	30.00	--	<0.50	<0.10	
A-21	03/15/06	2.50	3.20	--	--	32.00	--	<0.50	<0.10	
A-21	06/08/06	2.80	2.20	--	--	33.00	--	<0.50	<0.10	
A-21	09/12/06	2.60	2.90	--	--	31.00	--	<0.50	<0.10	
A-21	12/12/06	3.10	3.20	--	--	46.00	--	130.00	0.11	
A-21	03/27/07	3.80	--	--	--	--	--	--	--	
A-21	06/19/07	2.10	0.19	--	--	24	--	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	--	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	--	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	--	--	--	--	--	--	--	
A-21	06/08/10	0.33	0.015	--	--	0.72	--	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	--	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	--	940.00	0.15	
A-21	04/10/13	0.00	<0.010	--	--	--	<0.25	920.00	<0.10	
A-23R	02/14/02	1.20	1.70	--	--	29.00	--	580.00	<0.10	
A-23R	05/20/02	2.30	1.80	--	--	26.00	--	420.00	<0.10	
A-23R	08/28/02	2.40	4.10	--	--	13.00	--	270.00	0.20	
A-23R	11/05/02	2.40	3.60	--	--	11.00	--	200.00	1.60	
A-23R	02/19/03	3.00	6.10	--	--	12.00	--	120.00	<0.10	
A-23R	06/10/03	1.80	1.80	--	--	30.00	--	300.00	0.20	
A-23R	09/16/03	1.40	7.60	--	--	12.00	--	100.00	0.90	
A-23R	11/19/03	1.50	8.70	--	--	7.80	--	26.00	0.80	
A-23R	02/25/04	1.70	13.00	--	--	14.00	--	17.00	0.70	
A-23R	05/12/04	4.70	5.30	--	--	23.00	--	80.00	<1.0	
A-23R	08/25/04	1.80	10.00	--	--	11.00	--	31.00	0.34	
A-23R	12/14/04	2.20	12.00	--	--	9.80	--	6.40	0.25	
A-23R	03/10/05	1.10	7.30	--	--	30.00	--	220.00	0.20	
A-23R	06/07/05	1.50	5.60	--	--	28.00	--	200.00	1.90	

Table 3



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

Sample ID	Date	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	09/20/05	1.50	2.60	--	--	34.00	--	270.00	<0.10	
A-23R	12/14/05	0.80	5.30	--	--	25.00	--	50.00	0.17	
A-23R	03/15/06	0.80	13.00	--	--	27.00	--	21.00	0.28	
A-23R	06/08/06	0.70	4.00	--	--	38.00	--	150.00	0.19	
A-23R	09/12/06	1.40	3.60	--	--	33.00	--	100.00	<0.10	
A-23R	12/12/06	2.80	16.00	--	--	24.00	--	4.20	0.31	
A-23R	03/27/07	1.10	--	--	--	--	--	--	--	
A-23R	06/19/07	1.40	3.00	--	--	32.00	--	180.00	0.11	
A-23R	09/24/07	--	--	--	--	--	--	--	--	Not Sampled
A-23R	12/11/07	2.73	--	--	--	--	--	--	--	
A-23R	03/04/08	3.20	--	--	--	--	--	--	--	
A-23R	06/05/08	2.40	2.60	--	--	44.00	--	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	--	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	--	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	--	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	--	470.00	<0.10	
A-23R	04/08/13	0.21	<0.010	--	--	11.00	<0.25	1,000	<0.10	
A-27	02/14/02	6.70	7.40	--	--	20.00	--	0.55	0.10	
A-27	05/22/02	3.50	9.10	--	--	27.00	--	1.60	<0.10	
A-27	08/29/02	2.30	7.50	--	--	24.00	--	0.29	0.20	
A-27	11/06/02	0.70	5.20	--	--	26.00	--	<0.25	0.20	
A-27	02/19/03	3.20	6.60	--	--	19.00	--	<0.25	<0.10	
A-27	06/10/03	1.20	10.00	--	--	19.00	--	0.77	0.10	
A-27	09/16/03	1.00	8.60	--	--	51.00	--	0.59	0.70	
A-27	11/19/03	1.10	8.90	--	--	19.00	--	0.33	<0.10	
A-27	02/25/04	1.90	12.00	--	--	27.00	--	<0.25	0.30	
A-27	05/11/04	0.70	8.40	--	--	25.00	--	<0.50	<0.10	
A-27	08/25/04	1.68	12.00	--	--	22.00	--	<0.50	0.13	
A-27	12/14/04	1.32	12.00	--	--	10.00	--	<0.50	0.12	
A-27	03/10/05	1.62	12.00	--	--	18.00	--	0.78	<0.10	
A-27	06/07/05	1.00	7.00	--	--	19.00	--	<0.50	0.30	
A-27	09/20/05	3.10	10.00	--	--	29.00	--	0.84	0.16	
A-27	12/13/05	2.30	16.00	--	--	24.00	--	<0.50	<0.10	
A-27	03/15/06	2.30	15.00	--	--	14.00	--	<0.50	0.16	
A-27	06/08/06	1.20	13.00	--	--	25.00	--	0.51	0.15	

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 2720 13th Avenue Southwest
 Seattle, Washington

Sample ID	Date	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	05/24/11	0.12	--	--	--	--	--	--	--	
MW-1	05/31/12	0.00	--	--	--	--	--	--	--	
MW-1	04/10/13	0.61	--	--	--	--	--	--	--	
MW-2	02/13/02	0.40	<0.01	--	--	0.60	--	15.00	0.10	
MW-2	05/21/02	3.10	<0.01	--	--	0.90	--	12.00	<0.1	
MW-2	08/29/02	2.10	0.69	--	--	1.60	--	9.80	<0.1	
MW-2	11/05/02	1.90	1.20	--	--	5.10	--	9.60	<0.1	
MW-2	02/19/03	2.10	0.031	--	--	1.60	--	55.00	<0.1	
MW-2	06/10/03	1.40	0.059	--	--	1.60	--	25.00	0.30	
MW-2	09/16/03	1.40	1.10	--	--	12.00	--	21.00	0.60	
MW-2	11/19/03	6.40	0.13	--	--	0.40	--	8.30	<0.1	
MW-2	02/25/04	4.30	0.079	--	--	0.75	--	17.00	0.20	
MW-2	05/11/04	2.70	0.24	--	--	0.18	--	25.00	<0.10	
MW-2	08/25/04	2.02	0.11	--	--	0.063	--	21.00	<0.10	
MW-2	12/14/04	2.72	0.093	--	--	<0.050	--	11.00	<0.10	
MW-2	03/10/05	1.00	0.23	--	--	0.32	--	31.00	<0.10	
MW-2	06/07/05	1.00	0.44	--	--	0.059	--	21.00	<0.2	
MW-2	09/20/05	1.70	0.033	--	--	<0.050	--	25.00	<0.10	
MW-2	12/13/05	3.00	0.71	--	--	1.60	--	4.50	<0.10	
MW-2	03/15/06	1.80	<0.010	--	--	<0.050	--	17.00	<0.10	
MW-2	06/08/06	1.20	0.013	--	--	<0.050	--	10.00	<0.10	
MW-2	09/12/06	1.50	0.49	--	--	<0.050	--	13.00	<0.10	
MW-2	12/12/06	1.20	0.018	--	--	0.068	--	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	--	--	--	--	--	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	1.17	--	--	--	--	--	--	<0.10	
MW-3	02/13/02	0.30	0.033	--	--	0.40	--	16.00	0.10	
MW-3	05/20/02	4.10	0.96	--	--	3.50	--	29.00	0.10	
MW-3	08/28/02	2.60	4.60	--	--	11.00	--	19.00	0.20	
MW-3	11/06/02	2.90	0.88	--	--	0.80	--	9.20	0.20	
MW-3	02/19/03	8.60	0.017	--	--	0.20	--	84.00	0.20	
MW-3	06/11/03	6.54	0.022	--	--	0.40	--	130.00	0.20	
MW-3	09/17/03	6.50	0.028	--	--	0.80	--	160.00	<0.1	
MW-3	11/20/03	7.80	<0.01	--	--	<0.2	--	66.00	0.20	
MW-3	02/25/04	2.80	<0.01	--	--	<0.050	--	35.00	0.20	
MW-3	05/11/04	8.40	<0.010	--	--	<0.050	--	59.00	<0.10	
MW-3	08/25/04	1.80	<0.010	--	--	<0.050	--	66.00	<0.10	
MW-3	12/15/04	7.60	0.059	--	--	<0.050	--	50.00	<0.10	
MW-3	03/09/05	4.43	1.80	--	--	<0.050	--	51.00	<0.10	
MW-3	06/08/05	1.98	3.30	--	--	<0.050	--	37.00	<0.2	
MW-3	09/21/05	2.90	4.30	--	--	0.064	--	47.00	<0.10	

Table 3



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

Sample ID	Date	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-3	12/14/05	1.80	0.80	--	--	<0.050	--	72.00	<0.10	
MW-3	03/14/06	3.10	0.23	--	--	<0.050	--	22.00	<0.10	
MW-3	06/07/06	1.80	0.30	--	--	<0.050	--	21.00	<0.10	
MW-3	09/13/06	2.60	2.40	--	--	<0.050	--	30.00	<0.10	
MW-3	12/13/06	0.80	0.25	--	--	0.064	--	28.00	<0.10	
MW-3	06/20/07	2.20	--	--	--	--	--	--	--	
MW-3	06/05/08	2.00	--	--	--	--	--	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-3	04/09/13	0.94	--	--	--	--	--	--	--	
MW-4	02/14/02	0.60	5.80	--	--	32.00	--	3.10	0.70	
MW-4	05/21/02	3.90	1.90	--	--	23.00	--	1.60	0.50	
MW-4	08/28/02	1.00	5.10	--	--	86.00	--	2.90	--**	
MW-4	11/05/02	--	--	--	--	--	--	--	--	Not Sampled
MW-4	02/19/03	2.00	1.80	--	--	120.00	--	270.00	--**	
MW-4	06/10/03	0.90	4.90	--	--	36.00	--	8.40	0.60	
MW-4	09/16/03	--	--	--	--	--	--	--	--	Not Sampled
MW-4	11/19/03	1.40	1.90	--	--	31.00	--	49.00	0.60	
MW-4	02/25/04	2.20	1.20	--	--	32.00	--	1.00	0.30	
MW-4	05/12/04	0.89	4.90	--	--	37.00	--	5.30	<0.10	
MW-4	08/26/04	2.32	1.40	--	--	26.00	--	6.40	0.42	
MW-4	12/15/04	--	--	--	--	--	--	--	--	Not Sampled
MW-4	03/09/05	1.37	1.00	--	--	31.00	--	110.00	0.33	
MW-4	06/08/05	1.50	1.60	--	--	46.00	--	11.00	0.50	
MW-4	09/21/05	1.30	7.00	--	--	54.00	--	0.52	23.00	
MW-4	12/14/05	2.40	6.60	--	--	19.00	--	33.00	0.38	
MW-4	03/14/06	2.40	4.20	--	--	11.00	--	1.90	0.53	
MW-4	06/07/06	3.20	7.10	--	--	8.30	--	<0.50	0.54	
MW-4	09/13/06	2.80	7.60	--	--	15.00	--	<0.50	0.85	
MW-4	12/13/06	2.90	2.30	--	--	8.70	--	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-4	04/09/13	0.19	--	--	--	--	--	--	--	
MW-5	02/13/02	2.70	<0.01	--	--	<0.1	--	12.00	0.20	
MW-5	05/21/02	3.80	<0.01	--	--	0.20	--	7.40	0.10	
MW-5	08/29/02	1.40	0.17	--	--	0.30	--	11.00	0.20	
MW-5	11/05/02	4.10	6.40	--	--	13.00	--	250.00	0.30	
MW-5	02/20/03	2.00	0.073	--	--	<0.2	--	6.20	<0.1	
MW-5	06/11/03	1.60	2.50	--	--	0.60	--	8.20	0.10	
MW-5	09/16/03	1.20	4.70	--	--	3.10	--	5.60	0.10	

Table 3



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

Sample ID	Date	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-5	11/20/03	4.90	<0.01	--	--	0.30	--	4.70	0.20	
MW-5	02/24/04	3.10	0.33	--	--	0.062	--	5.80	0.10	
MW-5	05/11/04	1.90	0.61	--	--	1.50	--	3.00	<0.10	
MW-5	08/26/04	1.22	<0.010	--	--	<0.050	--	7.60	<0.10	
MW-5	12/15/04	12.19	<0.010	--	--	<0.050	--	4.30	<0.10	
MW-5	03/09/05	6.22	0.020	--	--	<0.050	--	15.00	<0.10	
MW-5	06/08/05	2.50	<0.010	--	--	<0.050	--	11.00	<0.2	
MW-5	09/21/05	1.90	0.080	--	--	0.077	--	8.90	<0.10	
MW-5	12/14/05	2.20	<0.010	--	--	<0.050	--	9.80	--*a	
MW-5	03/14/06	2.20	<0.010	--	--	<0.050	--	3.20	<0.10	
MW-5	06/07/06	2.00	<0.010	--	--	<0.050	--	4.50	<0.10	
MW-5	09/13/06	2.10	0.34	--	--	<0.050	--	6.60	<0.10	
MW-5	12/13/06	2.30	<0.010	--	--	<0.050	--	3.80	<0.10	
MW-5	06/20/07	--	--	--	--	--	--	--	--	Not Sampled
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-5	04/09/13	6.99	--	--	--	--	--	--	--	
MW-6	02/13/02	2.50	2.60	--	--	2.40	--	26.00	0.20	
MW-6	05/22/02	4.60	1.20	--	--	6.00	--	22.00	0.10	
MW-6	08/29/02	1.20	0.72	--	--	4.10	--	11.00	0.10	
MW-6	11/05/02	1.70	1.70	--	--	10.00	--	5.60	0.70	
MW-6	02/19/03	3.30	1.20	--	--	7.30	--	62.00	0.10	
MW-6	06/10/03	2.00	0.87	--	--	5.90	--	17.00	0.20	
MW-6	09/16/03	2.30	1.60	--	--	41.00	--	2.90	1.00	
MW-6	11/19/03	5.10	1.70	--	--	5.40	--	19.00	<0.1	
MW-6	02/25/04	2.40	<0.01	--	--	0.49	--	24.00	<0.1	
MW-6	05/11/04	1.20	0.39	--	--	5.10	--	12.00	<0.10	
MW-6	08/25/04	2.26	0.59	--	--	4.90	--	8.70	0.18	
MW-6	12/14/04	1.45	2.80	--	--	2.50	--	9.90	<0.10	
MW-6	03/10/05	0.70	0.85	--	--	1.90	--	20.00	0.15	
MW-6	06/07/05	3.80	0.38	--	--	0.86	--	19.00	0.20	
MW-6	09/20/05	0.90	1.50	--	--	2.50	--	6.00	0.18	
MW-6	12/13/05	1.00	1.90	--	--	2.60	--	10.00	0.26	
MW-6	03/15/06	1.00	0.057	--	--	0.30	--	17.00	<0.10	
MW-6	06/08/06	1.90	0.22	--	--	5.90	--	7.30	0.39	
MW-6	09/12/06	1.60	0.98	--	--	2.50	--	3.10	0.33	
MW-6	12/12/06	2.00	0.032	--	--	1.60	--	49.00	<0.10	
MW-6	03/27/07	2.30	--	--	--	--	--	--	--	
MW-6	06/19/07	1.40	0.40	--	--	4.40	--	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	--	11.00	0.13	

Table 3



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

Sample ID	Date	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	03/04/09	0.70	--	--	--	--	--	--	--	
MW-7	06/02/09	0.37	25.00	--	--	2.80	--	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	0.44	
MW-7	09/09/10	0.25	--	--	--	--	--	3.60	--	
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	--	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	--	2.40	0.70	
MW-7	04/09/13	0.26	3.70	--	--	3.30	<0.25	4.70	<0.10	
MW-8	02/14/02	2.50	0.24	--	--	0.20	--	5.50	0.20	
MW-8	08/29/02	6.20	0.90	--	--	2.30	--	3.70	0.20	
MW-8	11/05/02	2.10	5.50	--	--	3.40	--	7.50	0.10	
MW-8	02/20/03	2.90	0.56	--	--	0.50	--	7.60	0.30	
MW-8	06/11/03	1.56	18.00	--	--	0.30	--	<0.25	0.40	
MW-8	09/17/03	2.50	11.00	--	--	6.10	--	6.70	0.40	
MW-8	11/20/03	1.70	<0.010	--	--	<0.2	--	11.00	0.10	
MW-8	02/26/04	2.30	<0.01	--	--	0.57	--	4.40	0.20	
MW-8	05/11/04	3.10	0.19	--	--	0.12	--	5.30	<0.10	
MW-8	08/26/04	3.32	0.36	--	--	<0.050	--	11.00	<0.10	
MW-8	12/15/04	2.30	<0.010	--	--	<0.050	--	15.00	<0.10	
MW-8	03/09/05	2.22	<0.010	--	--	<0.050	--	7.30	<0.10	
MW-8	06/08/05	6.50	0.018	--	--	<0.050	--	7.40	<0.2	
MW-8	09/21/05	2.10	4.40	--	--	0.51	--	11.00	<0.10	
MW-8	12/14/05	2.50	4.00	--	--	<0.050	--	11.00	<0.10	
MW-8	03/14/06	2.50	<0.010	--	--	<0.050	--	6.40	<0.10	
MW-8	06/07/06	1.30	0.53	--	--	<0.050	--	6.00	<0.10	
MW-8	09/13/06	1.60	7.10	--	--	0.068	--	5.00	<0.10	
MW-8	12/13/06	3.10	<0.010	--	--	<0.050	--	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	--	--	--	--	--	--	--	
MW-8	05/23/11	0.85	--	--	--	--	--	--	--	
MW-8	05/31/12	0.79	--	--	--	--	--	--	--	
MW-8	04/10/13	4.32	--	--	--	--	--	--	--	
MW-9	06/11/03	2.10	6.60	--	--	15.00	--	2.00	0.70	
MW-9	09/17/03	2.10	9.80	--	--	19.00	--	1.50	0.70	
MW-9	11/20/03	1.60	2.20	--	--	14.00	--	66.00	0.30	
MW-9	02/26/04	1.10	15.00	--	--	12.00	--	8.10	0.80	
MW-9	05/11/04	0.90	4.10	--	--	0.25	--	0.62	0.12	

Table 3



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

Sample ID	Date	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	08/26/04	1.80	8.20	--	--	15.00	--	1.00	0.41	
MW-9	12/15/04	1.76	5.30	--	--	29.00	--	180.00	<0.10	
MW-9	03/09/05	4.70	4.30	--	--	7.20	--	4.40	0.30	
MW-9	06/08/05	4.50	6.50	--	--	8.40	--	6.10	0.30	
MW-9	09/21/05	1.70	11.00	--	--	14.00	--	1.90	0.21	
MW-9	12/14/05	3.30	10.00	--	--	9.10	--	17.00	0.11	
MW-9	03/14/06	3.30	12.00	--	--	3.40	--	1.40	0.51	
MW-9	06/07/06	0.90	4.60	--	--	5.60	--	0.94	0.13	
MW-9	09/13/06	1.90	7.40	--	--	7.50	--	<0.50	<0.10	
MW-9	12/13/06	2.40	0.72	--	--	3.60	--	12.00	0.19	
MW-9	03/27/07	2.90	--	--	--	--	--	--	--	
MW-9	06/20/07	2.90	3.50	--	--	6.00	--	<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	--	0.80	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	--	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	--	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	--	3.60	0.10	
MW-9	08/29/11	0.27	--	--	--	--	--	--	--	
MW-9	12/01/11	0.66	--	--	--	--	--	--	--	
MW-9	03/01/12	1.35	--	--	--	--	--	--	--	
MW-9	05/31/12	0.00	0.13	--	--	<0.050	--	5.30	<0.10	
MW-9	04/10/13	0.00	6.1	--	--	<0.050	0.88	3.2	<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	0.21	--	--	--	--	--	--	<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										Destroyed during construction activities
MW-14	02/13/02	1.40	2.80	--	--	22.00	--	21.00	0.30	
MW-14	05/21/02	4.00	6.20	--	--	22.00	--	11.00	0.60	
MW-14	08/29/02	2.20	5.90	--	--	20.00	--	52.00	0.70	
MW-14	11/05/02	2.40	11.00	--	--	23.00	--	39.00	0.80	

Table 3



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

Sample ID	Date	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	12/11/07	3.40	--	--	--	--	--	--	--	
MW-18	03/04/08	1.50	--	--	--	--	--	--	--	
MW-18	06/04/08	3.10	--	--	--	--	--	--	--	
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	04/09/13	0.34	--	--	--	--	--	--	--	
MW-19	02/13/02	3.50	13.00	--	--	22.00	--	0.43	0.60	
MW-19	05/21/02	3.20	15.00	--	--	13.00	--	0.39	0.50	
MW-19	08/29/02	0.90	13.00	--	--	19.00	--	<0.25	0.60	
MW-19	11/05/02	2.70	10.00	--	--	19.00	--	<0.25	0.40	
MW-19	02/20/03	3.20	13.00	--	--	43.00	--	23.00	0.50	
MW-19	06/11/03	0.50	16.00	--	--	37.00	--	11.00	0.40	
MW-19	09/16/03	1.40	18.00	--	--	30.00	--	5.20	0.70	
MW-19	11/20/03	4.80	18.00	--	--	49.00	--	10.00	0.50	
MW-19	02/24/04	2.10	20.00	--	--	39.00	--	1.80	0.60	
MW-19	05/11/04	0.60	17.00	--	--	30.00	--	0.98	0.24	
MW-19	08/26/04	2.83	15.00	--	--	15.00	--	<0.50	0.20	
MW-19	12/15/04	3.89	21.00	--	--	44.00	--	31.00	0.22	
MW-19	03/09/05	3.42	22.00	--	--	25.00	--	5.30	0.26	
MW-19	06/08/05	0.89	15.00	--	--	18.00	--	12.00	0.60	
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	1.70	18.00	--	--	7.90	--	<0.50	0.55	
MW-19	09/13/06	2.10	19.00	--	--	10.00	--	<0.50	1.30	
MW-19	12/13/06	3.90	19.00	--	--	30.00	--	16.00	0.43	
MW-19	03/27/07	2.50	--	--	--	--	--	--	--	
MW-19	06/20/07	1.90	23.00	--	--	9.30	--	<0.50	0.19	
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	--	0.86	0.46	

Table 3



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

Sample ID	Date	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	11/20/03	0.90	0.013	--	--	2.80	--	17.00	0.5	
MW-21	02/26/04	1.00	12.00	--	--	17.00	--	12.00	0.9	
MW-21	05/11/04	1.80	4.70	--	--	12.00	--	0.92	<0.10	
MW-21	08/26/04	2.80	2.00	--	--	1.80	--	<0.50	0.13	
MW-21	12/15/04	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	0.99	4.30	--	--	9.80	--	<0.50	<0.10	
MW-21	06/08/05	3.50	1.80	--	--	11.00	--	1.20	0.5	
MW-21	09/21/05	2.40	15.00	--	--	7.20	--	<0.50	0.14	
MW-21	12/14/05	1.20	18.00	--	--	0.19	--	5.30	0.18	
MW-21	03/14/06	1.20	<0.010	--	--	0.10	--	3.20	<0.10	
MW-21	06/07/06	1.20	1.70	--	--	9.90	--	2.30	0.37	
MW-21	09/13/06	--	--	--	--	--	--	--	--	Not Sampled
MW-21	12/13/06	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/27/07	0.90	--	--	--	--	--	--	--	
MW-21	06/20/07	2.10	9.10	--	--	4.20	--	<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	--	<0.50	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	--	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	--	--	--	--	--	--	--	
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	--	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	--	5.70	0.22	
MW-21	04/10/13	0.00	0.62	--	--	<0.050	0.70	4.20	<0.10	
MW-22	02/13/02	6.70	0.3	--	--	10	--	6.40	<0.1	
MW-22	05/21/02	4.40	1.2	--	--	9.1	--	1.70	0.2	
MW-22	08/29/02	0.70	2.4	--	--	9.1	--	2.20	0.2	
MW-22	11/05/02	1.60	1.1	--	--	5.6	--	99.00	0.2	
MW-22	02/19/03	2.10	<0.01	--	--	4.7	--	120	0.1	
MW-22	06/10/03	1.30	0.087	--	--	5.00	--	110.00	0.5	
MW-22	09/16/03	2.40	2.0	--	--	55.00	--	230.00	1.6	
MW-22	11/19/03	6.60	0.056	--	--	2.30	--	100.00	0.4	
MW-22	02/25/04	8.20	<0.01	--	--	2.40	--	43.00	0.4	
MW-22	05/11/04	5.10	<0.010	--	--	0.48	--	36.00	<0.10	
MW-22	08/25/04	2.72	1.4	--	--	2.70	--	59.00	--*b	
MW-22	12/14/04	1.35	3.2	--	--	5.50	--	65.00	<0.10	

Table 3



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

Sample ID	Date	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-23	12/02/11	0.89	--	--	--	--	--	--	--	
MW-23	03/02/12	0.65	--	--	--	--	--	--	--	
MW-23	05/30/12	0.00	5.50	--	--	41.00	--	74.00	0.38	
MW-23	04/10/13	0.00	1.90	--	--	92.00	<0.25	1,000	<0.10	
MW-24	02/25/04	1.70	15	--	--	22	--	6.40	0.3	
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	--	25	--	--	46	--	<0.50	0.23	
MW-24	06/08/06	1.60	7.6	--	--	9.1	--	<0.50	0.42	
MW-24	09/12/06	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/12/06	2.30	16	--	--	3.2	--	<0.50	0.31	
MW-24	03/27/07	2.20	--	--	--	--	--	--	--	
MW-24	06/19/07	1.40	15	--	--	68	--	<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	--	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	--	<0.50	<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	--	<0.50	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	--	0.78	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	--	2.40	0.15	
MW-24	04/10/13	0.53	19.00	--	--	35.00	<0.25	1.00	<0.10	
MW-25	02/26/04	1.30	1.5	--	--	27	--	120.00	0.9	
MW-25	05/12/04	1.90	2.0	--	--	12	--	140.00	0.10	
MW-25	08/26/04	1.78	1.7	--	--	5.4	--	380.00	0.13	
MW-25	12/14/04	2.10	0.40	--	--	2.7	--	370.00	<0.10	
MW-25	03/10/05	2.10	2.0	--	--	3.5	--	180.00	0.21	
MW-25	06/07/05	1.75	2.2	--	--	4.7	--	160.00	0.7	

Table 3



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

Sample ID	Date	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	09/20/05	1.30	0.91	--	--	1.8	--	270.00	0.12	
MW-25	12/13/05	2.50	1.8	--	--	1.8	--	140.00	0.23	
MW-25	03/15/06	2.50	0.92	--	--	4.6	--	210.00	0.38	
MW-25	06/08/06	1.20	1.9	--	--	6.5	--	120.00	0.13	
MW-25	09/12/06	1.80	0.84	--	--	5.9	--	250.00	<0.10	
MW-25	12/12/06	2.10	1.6	--	--	15	--	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	--	--	--	--	--	--	--	
MW-25	04/10/13	0.00	--	--	--	--	--	--	--	
SH-02	12/20/00	--	5.40	--	--	0.86	--	14.00	0.32	
SH-02 Destroyed during construction activities										
SH-02R	02/13/02	1.20	<0.01	--	--	0.60	--	9.70	0.20	
SH-02R	05/21/02	4.50	3.50	--	--	8.10	--	6.70	<0.1	
SH-02R	08/28/02	1.50	4.90	--	--	17.00	--	3.80	<0.1	
SH-02R	11/05/02	2.10	6.10	--	--	20.00	--	13.00	<0.1	
SH-02R	02/19/03	2.50	0.29	--	--	2.40	--	10.00	0.60	
SH-02R	06/10/03	1.30	1.40	--	--	5.10	--	6.80	0.30	
SH-02R	09/16/03	1.90	5.20	--	--	19.00	--	5.10	0.40	
SH-02R	11/19/03	1.10	1.50	--	--	4.60	--	7.10	0.20	
SH-02R	02/25/04	3.40	5.00	--	--	14.00	--	5.20	0.40	
SH-02R	05/12/04	2.00	3.20	--	--	7.40	--	4.40	<0.10	
SH-02R	08/26/04	2.24	2.10	--	--	3.80	--	5.80	<0.10	
SH-02R	12/15/04	1.98	0.092	--	--	0.055	--	100.00	<0.10	
SH-02R	03/09/05	1.59	0.38	--	--	1.50	--	380.00	<0.10	
SH-02R	06/08/05	1.00	1.20	--	--	0.11	--	110.00	<0.2	
SH-02R	09/21/05	1.50	4.40	--	--	0.72	--	31.00	<0.10	
SH-02R	12/14/05	0.70	2.20	--	--	0.28	--	11.00	<0.10	
SH-02R	03/14/06	0.70	0.42	--	--	1.40	--	25.00	<0.10	
SH-02R	06/07/06	0.90	3.10	--	--	4.40	--	20.00	<0.10	
SH-02R	09/13/06	1.70	3.90	--	--	5.50	--	24.00	<0.10	
SH-02R	12/13/06	0.90	0.38	--	--	1.30	--	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	0.22	--	--	--	--	--	--	<0.10	
SH-05	12/20/00	--	0.010	--	--	1.80	--	6.00	<0.01	
SH-05 Destroyed during construction activities										
SH-05R	05/21/02	3.90	1.50	--	--	10.00	--	16.00	0.30	
SH-05R	08/28/02	1.40	1.00	--	--	11.00	--	1.40	0.50	

Table 3



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

Sample ID	Date	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	05/23/11	3.20	--	--	--	--	--	--	0.0050	
MW-07R	06/01/12	1.03	--	--	--	--	--	--	0.0050	
MW-07R	04/09/13	1.35	--	--	--	--	--	--	<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	--	--	--	--	--	--	--	

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



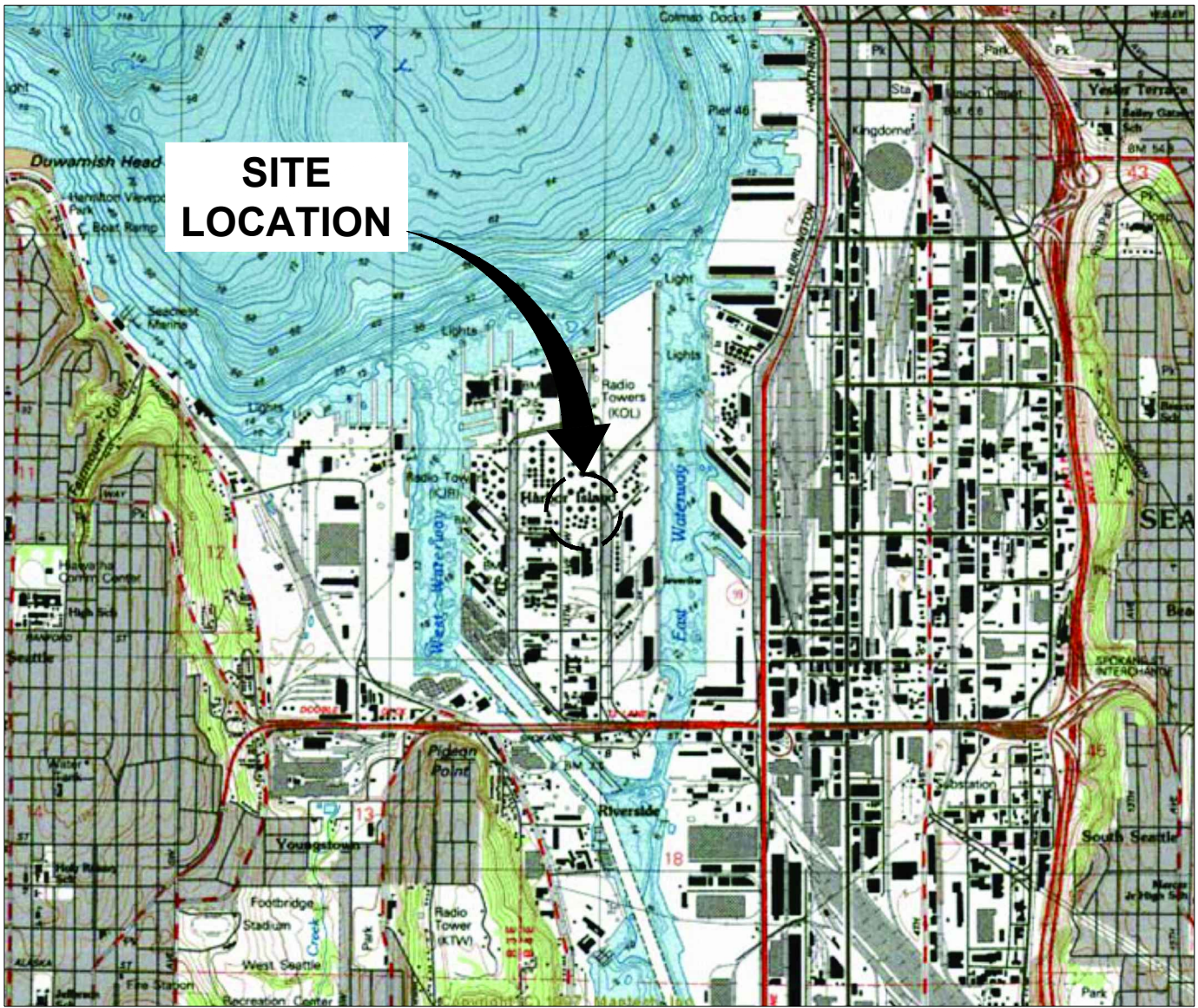
Performance Monitoring Parameters
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal
 2720 13th Avenue Southwest
 Seattle, Washington

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	<0.0005	<0.0005	<0.0005	<0.0005
11	07/30/13	0.42	1.0	<0.30	<0.25	0.88	<0.10	<0.25	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--
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
MW-7	06/21/13	--	--	--	<0.25	3.2	<0.10	4.0	0.27	0.0059	0.064	0.280	1.100
MW-7	07/30/13	20	4.6	<0.30	<0.25	4.1	<0.10	7.2	--	0.016	0.110	0.290	1.600
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-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	0.0051	0.160	0.013
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-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-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-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	0.48	1.4	0.11	5.1	--	--	--	--	--
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-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	--	--	--	--	--

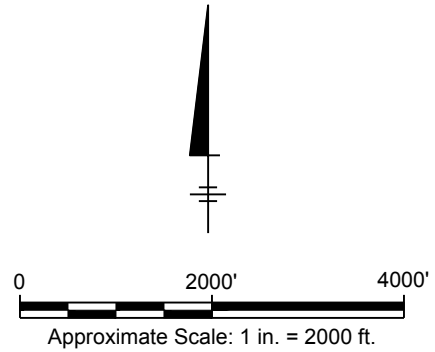
Notes: Dissolved oxygen results for MW-7, MW-9, TMW-3, TMW-5, and TMW-6 from 7/30/13 are not considered to be representative of groundwater conditions based on poor correlation with oxidation reduction potential measurements.
 < = Denotes compound was not detected at designated detection limit.
Bold = Concentration detected above the laboratory reporting limit.

Figures

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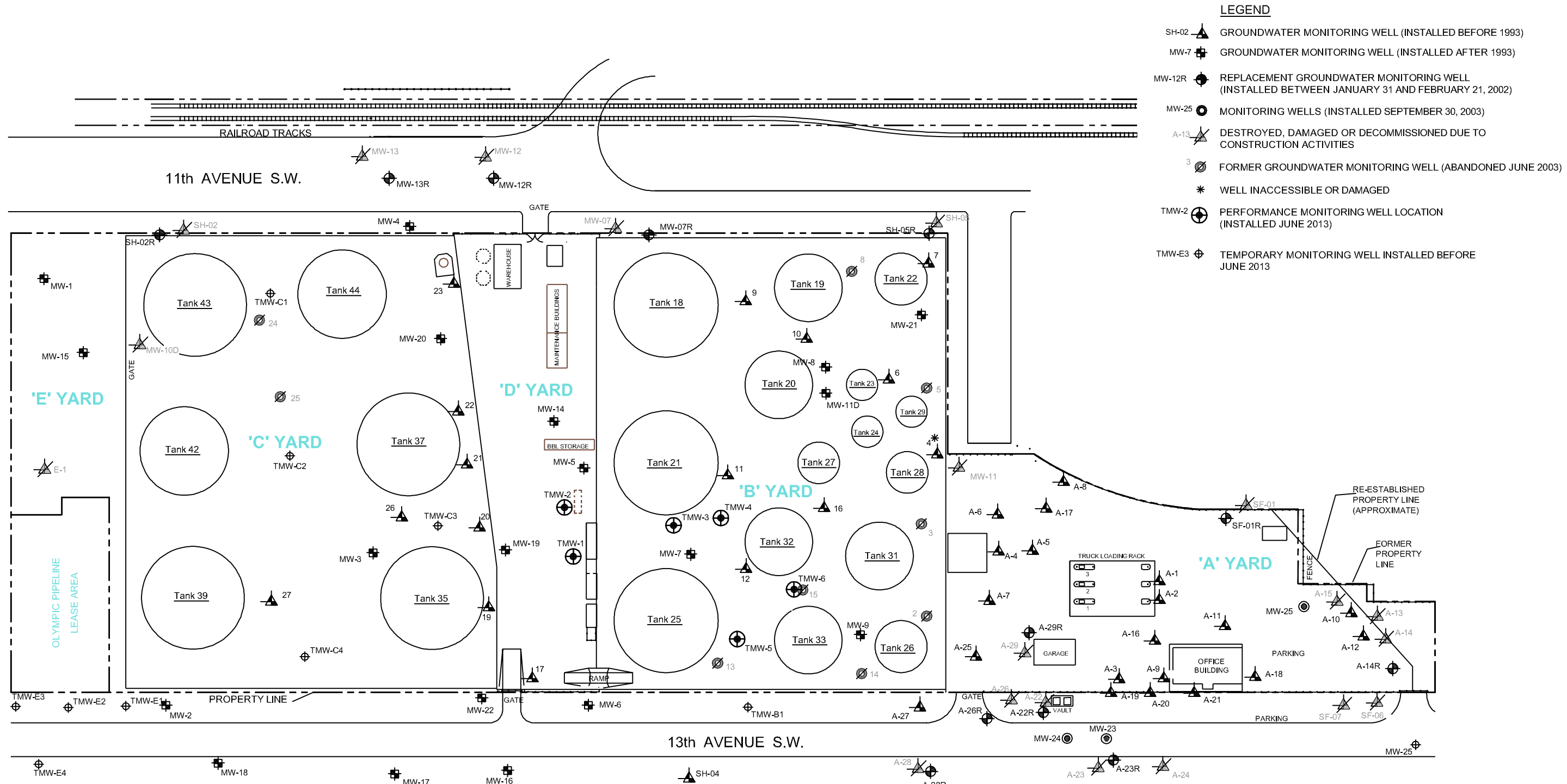
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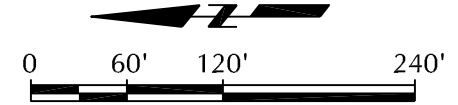
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SITE LOCATION MAP

CITY:\Read\ DIV\GROUP\F\Read\ DB\Read\ LD\Op\ PIC\Op\ PM\Read\ TM\Op\ Lyr\Option\OFF\REF*
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- 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)
 - A-13 ▲ DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
 - 3 ⊕ FORMER GROUNDWATER MONITORING WELL (ABANDONED JUNE 2003)
 - * WELL INACCESSIBLE OR DAMAGED
 - TMW-2 ⊕ PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
 - TMW-E3 ⊕ TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013

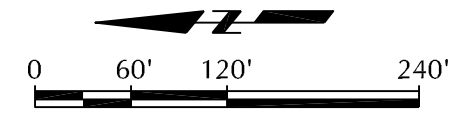
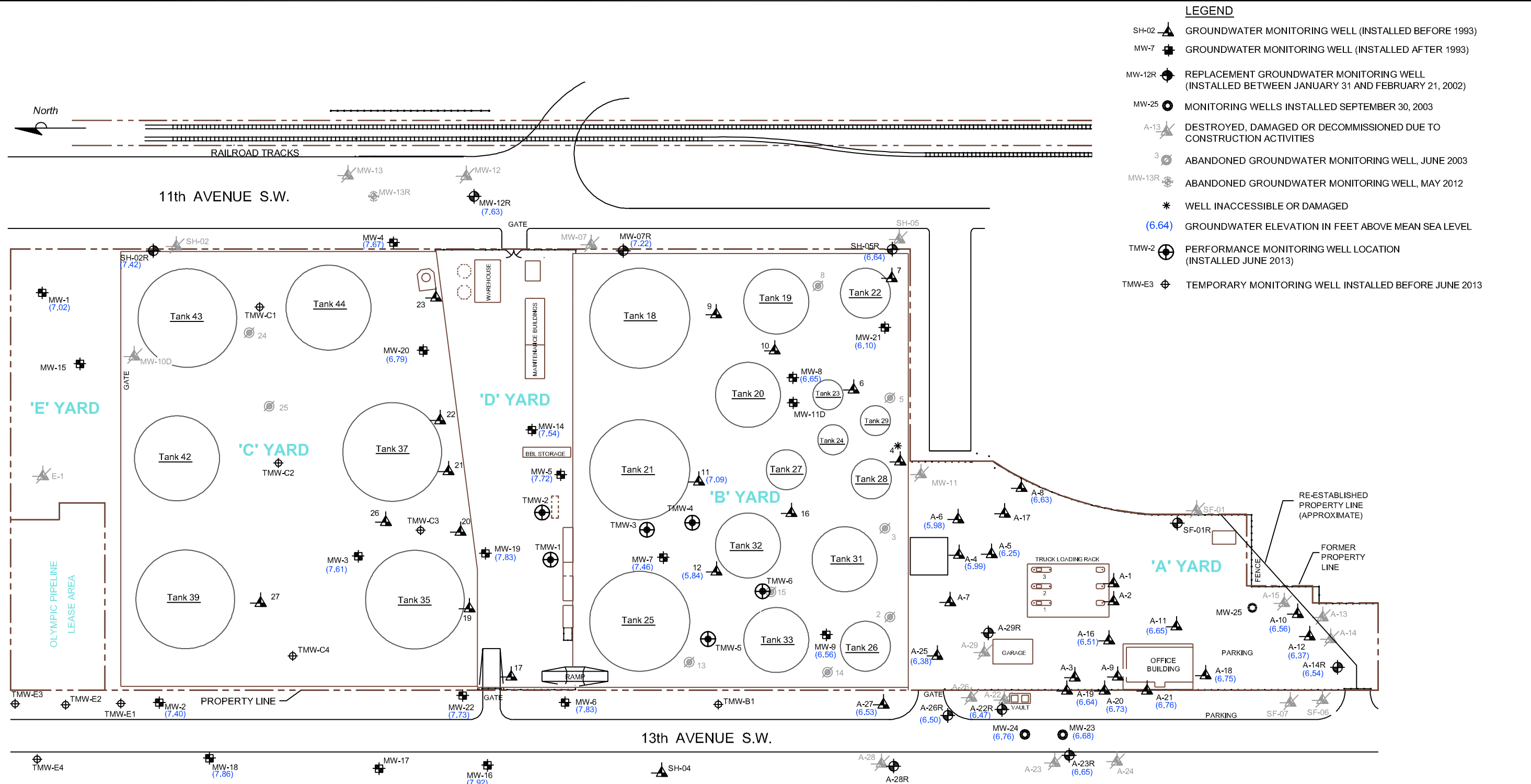


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SITE PLAN



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GROUNDWATER MONITORING REPORT

GROUNDWATER ELEVATION MAP


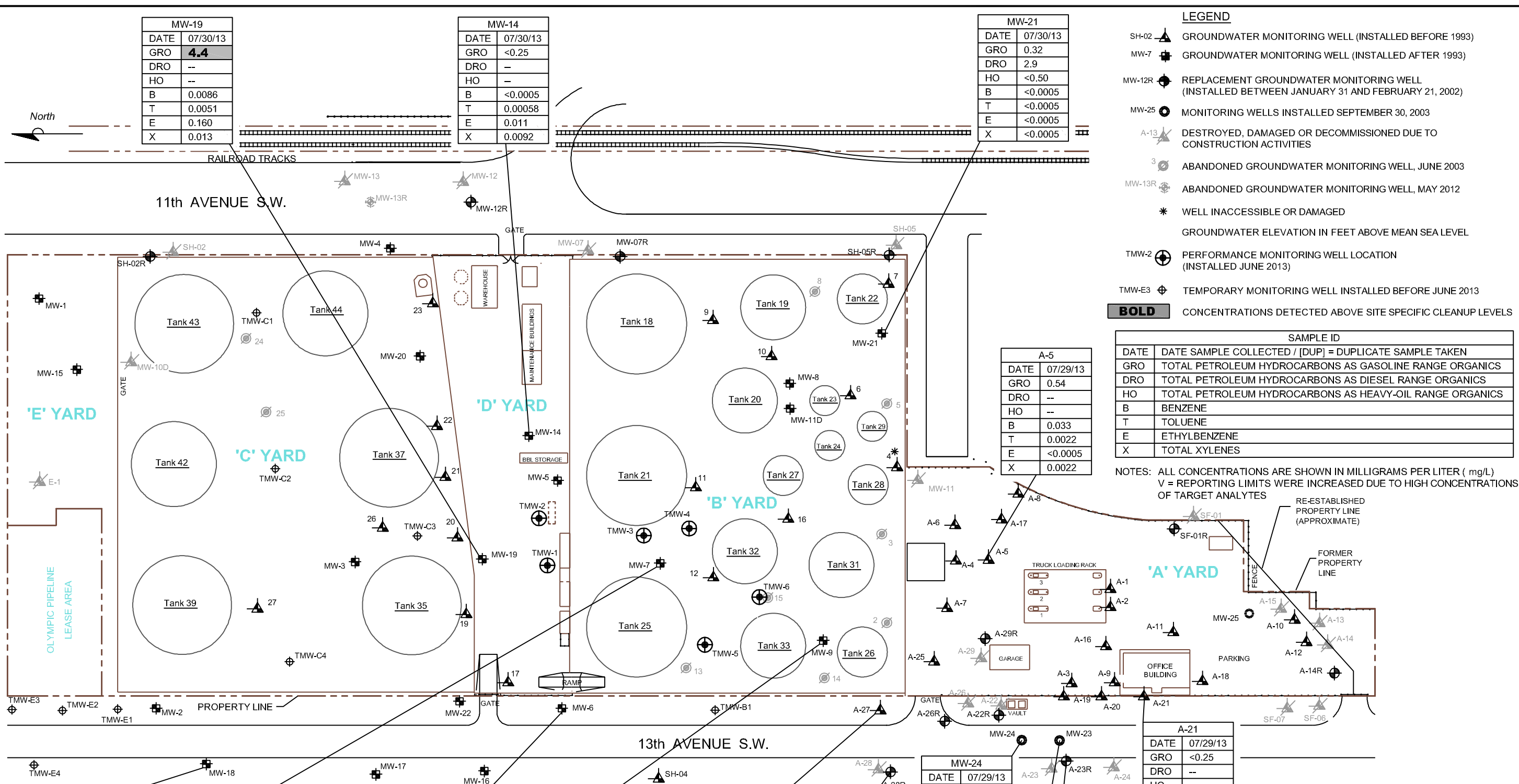


FIGURE
3

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MW-19	
DATE	07/30/13
GRO	4.4
DRO	--
HO	--
B	0.0086
T	0.0051
E	0.160
X	0.013

MW-14	
DATE	07/30/13
GRO	<0.25
DRO	--
HO	--
B	<0.0005
T	0.00058
E	0.011
X	0.0092

MW-21	
DATE	07/30/13
GRO	0.32
DRO	2.9
HO	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

- 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
 - A-13 ▲ DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
 - 3 ○ ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
 - MW-13R ○ ABANDONED GROUNDWATER MONITORING WELL, MAY 2012
 - * 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: ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER LITER (mg/L)
 V = REPORTING LIMITS WERE INCREASED DUE TO HIGH CONCENTRATIONS OF TARGET ANALYTES

MW-18	
DATE	07/29/13
GRO	<0.25
DRO	--
HO	--
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-7	
DATE	07/30/13
GRO	7.2
DRO	--
HO	--
B	0.016
T	0.110
E	0.290
X	1.600

MW-6	
DATE	07/29/13
GRO	0.30
DRO	--
HO	--
B	<0.0005
T	<0.0005
E	<0.0005
X	0.00059

MW-9	
DATE	07/30/13
GRO	0.27
DRO	--
HO	--
B	0.0017
T	<0.0005
E	0.00071
X	0.006

A-27	
DATE	07/30/13
GRO	1.8 / [1.5]
DRO	--
HO	--
B	0.073 / [0.058]
T	0.0039 / [0.0033]
E	0.051 / [0.040]
X	0.017 / [0.015]

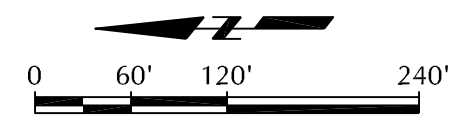
A-28R	
DATE	07/29/13
GRO	2.5
DRO	--
HO	--
B	0.043
T	0.0018
E	0.019
X	0.0034

MW-24	
DATE	07/29/13
GRO	27
DRO	--
HO	--
B	1.10
T	0.059
E	2.10
X	4.70

MW-23	
DATE	07/29/13
GRO	1.7
DRO	--
HO	--
B	0.0097
T	<0.0010 V
E	0.025
X	0.0011

A-23R	
DATE	07/29/13
GRO	<0.25
DRO	--
HO	--
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

A-21	
DATE	07/29/13
GRO	<0.25
DRO	--
HO	--
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005



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GROUNDWATER ANALYTICAL RESULTS

FIGURE
4

CITY: (Read) D:\V\GROUP\F\Read) DB\Read) LD\Read) PIC\Read) TMS\Read) LYR\OPTION\OFF\REF*
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MW-19			TMW-2			12			11			TMW-5		
DATE	06/21/13	07/30/13	DATE	06/21/13	07/30/13	DATE	06/24/13	07/30/13	DATE	06/24/13	07/30/13	DATE	06/21/13	07/30/13
GRO	2.8	4.4	GRO	0.25	0.26	GRO	4.1	<0.25	GRO	<0.25	<0.25	GRO	1.3	4.3
DRO	1.1	--	DRO	0.28	--	DRO	5.3	--	DRO	0.30	--	DRO	0.65	--
HO	--	--	HO	--	--	HO	--	--	HO	--	--	HO	--	--
B	0.019	0.0086	B	0.0075	--	B	0.037	--	B	<0.0005	--	B	0.100	--
T	0.017	0.0051	T	0.00097	--	T	0.045	--	T	<0.0005	--	T	0.0097	--
E	0.310	0.160	E	<0.0005	--	E	0.130	--	E	<0.0005	--	E	0.022	--
X	0.081	0.013	X	0.00068	--	X	0.530	--	X	<0.0005	--	X	0.020	--

- 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
 - A-13 ▲ DESTROYED, DAMAGED OR DECOMMISSIONED DUE TO CONSTRUCTION ACTIVITIES
 - 3 ○ ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
 - MW-13R ○ ABANDONED GROUNDWATER MONITORING WELL, MAY 2012
 - * 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: ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER LITER (mg/L)

TMW-1		
DATE	06/21/13	07/30/13
GRO	<0.25	<0.25
DRO	<0.25	--
HO	--	--
B	<0.00050	--
T	<0.00050	--
E	<0.00050	--
X	<0.00050	--

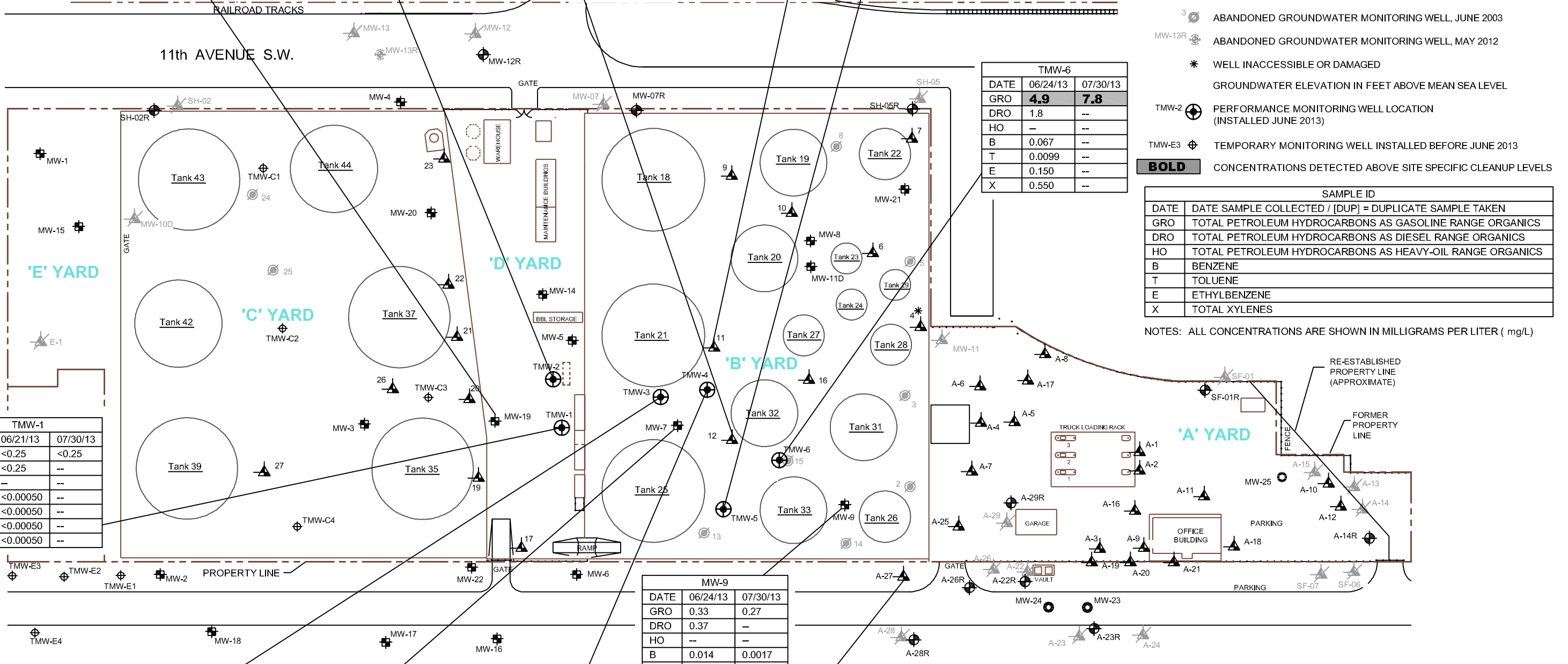
MW-9		
DATE	06/24/13	07/30/13
GRO	0.33	0.27
DRO	0.37	--
HO	--	--
B	0.014	0.0017
T	<0.0005	<0.0005
E	<0.0005	0.00071
X	0.0035	0.0060

TMW-3		
DATE	06/24/13	07/30/13
GRO	0.86	0.98
DRO	0.85	--
HO	--	--
B	<0.0005	--
T	0.00052	--
E	<0.0005	--
X	0.00087	--

MW-7		
DATE	06/21/13	07/30/13
GRO	4.0	7.2
DRO	0.27	--
HO	--	--
B	0.0059	0.016
T	0.064	0.110
E	0.280	0.290
X	1.100	1.600

TMW-4		
DATE	06/24/13	07/30/13
GRO	4.9	5.1
DRO	2.5	--
HO	--	--
B	0.170	--
T	0.084	--
E	0.230	--
X	0.950	--

A-27	
DATE	07/30/13
GRO	1.8 / [1.5]
DRO	--
HO	--
B	0.073 / [0.058]
T	0.0039 / [0.0033]
E	0.051 / [0.040]
X	0.017 / [0.015]



KINDER MORGAN LIQUID TERMINALS, LLC
 HARBOR ISLAND TERMINAL
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THIRD QUARTER 2013
GROUNDWATER MONITORING REPORT

PERFORMANCE MONITORING
GROUNDWATER ANALYTICAL RESULTS

5



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.

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)	Ethylbenzene (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)	Ethylbenzene (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	NA
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	NA
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,b}
	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-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 NWTTPH-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 NWTTPH-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

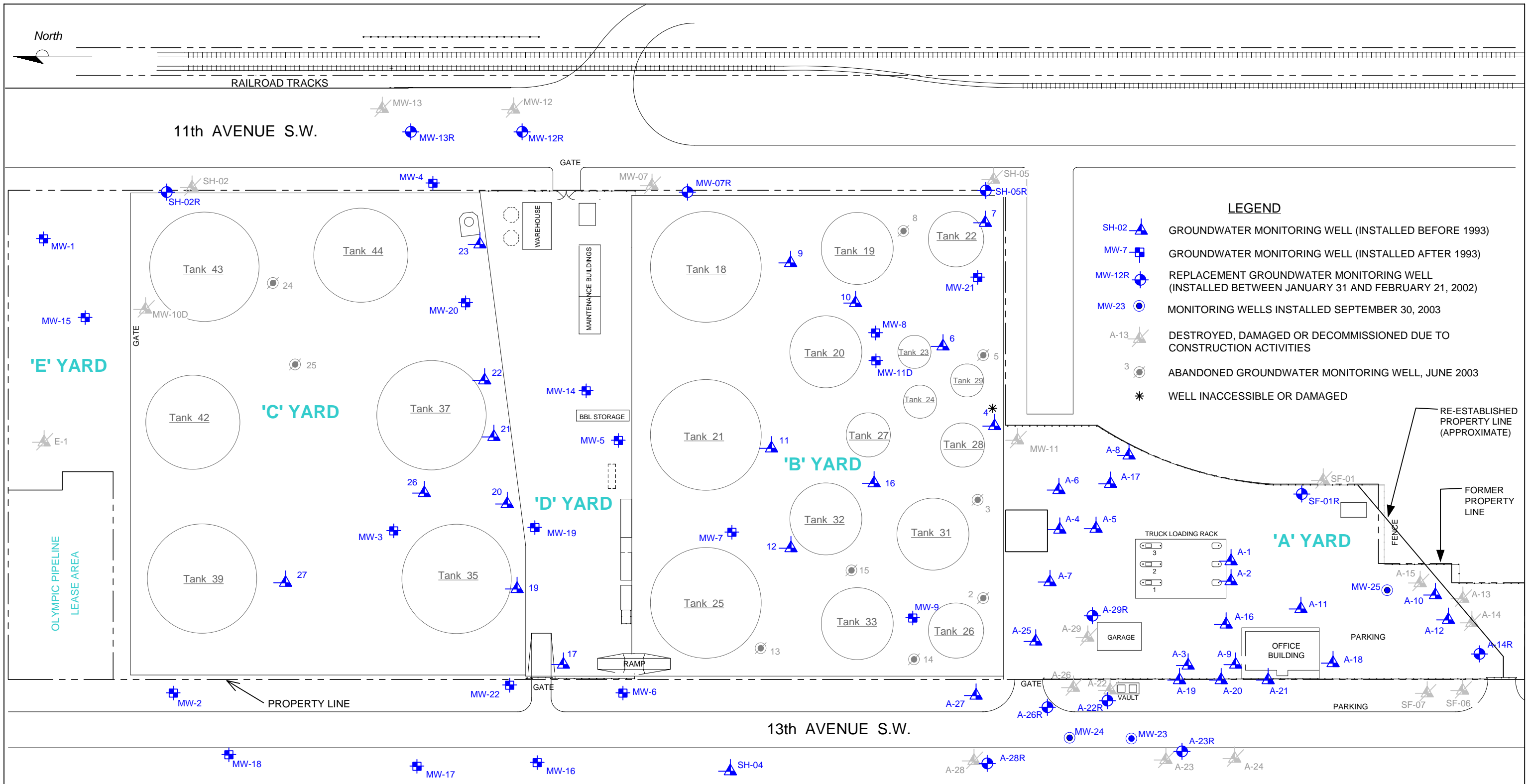
Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D/TPH-O	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	Quarterly	Discontinue							
A-8	Annual	Annual							
A-10	Annual	Annual			Discontinue	Discontinue	Discontinue	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

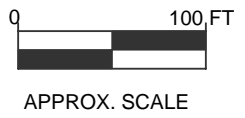
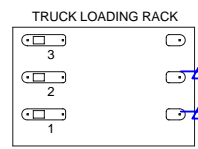
TABLE 5
PROPOSED ANNUAL ANALYSES
GROUNDWATER COMPLIANCE PROGRAM
Kinder Morgan Harbor Island Terminal

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.

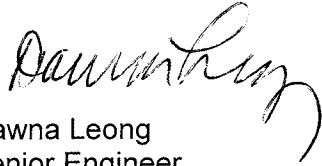
Groundwater samples will be collected after specific conductance and dissolved oxygen measurements are within 10 percent for 3 consecutive readings.

Sample Collection

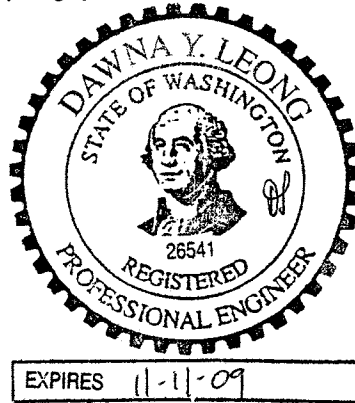
Following purging, samples will be collected for laboratory analyses. Samples will be pumped directly into laboratory-supplied sample containers, and each sample bottle will be labeled with the sample identification number, the sample date, the facility name, and the name of the technician who performed 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 #: WA000804.0002.00003

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

Date: 7/25/13

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-4	12:00	No/No	—	0	7.23		PID = 44.3
A-5	11:48	No/Yes	—	0	7.88		PID: 42.3 ppm
A-6	12:04 11:56	No/No	—	0	6.83 7.98		PID = 72.0 114.7 ppm Removed abs. suck
A-8	11:56	No/No	—	0	7.98		PID: 114.7 72.0 ppm
A-10	11:26	No/No	—	0	6.95 6.95		PID: 0.5 ppm 0.5 KAH
A-11	11:36	No/No	—	0	7.75		PID = 0.1 ppm
A-12	11:16	No/No	—	0	6.58		PID: 0.1 ppm
A-14R	11:24	No/No	—	0	7.67		PID: 0.1 ppm
A-16	11:42	No/Yes	—	0	7.88		PID: 369.1 ppm
A-18	11:31	No/No	—	0	7.99		PID: 0.3 ppm
A-19	11:12	No/No	—	0	7.93		PID: 0.4 ppm
A-20	11:07	No/No	—	0	7.46		PID: 0.2 ppm
A-21	11:01	No/No	—	0	7.59		PID: 0.3 ppm
A-22R	12:21 12:21	No/Yes	—	0	7.64		PID: 491.7 ppm
A-23R	13:15	No/No	—	0	8.92		PID = 0.0 ppm
A-25	12:10	/Yes	—	0	7.52		PID: 73.8 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date: 7/29/13

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-26R	10:47	No/Yes	—	0	7.69		PID = 105.0 ppm
A-27	10:39	Yes/Yes	—	0	10.69		556.0 ppm PID
A-28R	10:42	No/Yes	—	0	8.20		262.1 ppm PID
11	8:36	No/No	—	0	4.99		0.2 ppm PID
12	8:43	Yes/Yes	—	0	3.95		360.2 ppm PID
MW-07R	9:36	No/No	—	0	6.70		0.1 ppm
MW-1	10:07	No/No	—	0	6.19		PID = 0.2 ppm
MW-2	10:14	No/No	—	0	7.82		PID = 0.1 ppm
MW-3	9:18	No/No	—	0	3.78		PID 0.0 ppm
MW-4	9:52	No/No	—	0	7.02		PID = 32.4 ppm
MW-5	8:03	No/No	⊕	0	3.41		PID = 0.0 ppm
MW-6	10:36	No/No	—	0	7.34		PID = 0.1 ppm
MW-7	8:18	No/No	⊕	0	3.16		PID: 10.4 ppm
MW-8	9:05	No/No	—	0	3.25		PID 0.0 ppm
MW-9	8:52	No/No	⊕	0	3.19		PID: 4.3 ppm
MW-12R	9:45	No/No	—	0	7.84		PID = 3.1 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
MW-14	8:09	No/No	-	0	3.90		PID = 2.9
MW-16	10:27	No/No	-	0	7.31		PID = 0.1
MW-18	10:20	No/No	-	0	7.63		PID = 0.1 ppm
MW-19	7:42	No/No	-	0	3.56		PID = 19.1
MW-20	9:13	No/No	-	0	4.93		PID = 0.0 ppm
MW-21	8:58	No/No	-	0	3.31		PID = 0.0 ppm
MW-22	10:32	No/No	-	0	8.59		PID = 0.1 ppm
MW-23	10:59	No/Yes	-	0	7.47		PID = 217.7 ppm Abs. sock removed
MW-24	10:53	No/Yes	-	0	7.58		PID = 344.8 ppm
SH-02R	10:00	No/No	-	0	5.98		PID = 2.9 ppm
SH-05R	9:28	No/No	-	0	7.25		PID = 0.1 ppm
TMW-B1	10:40	No/Yes	-	0	7.80		PID = 522.1
TMW-1	7:49	No/No	-	0	3.72		PID = 0.6
TMW-2	7:55	No/slight	-	0	3.94		PID = 30.7
TMW-3	8:25	No/slight	-	0	3.91		PID = 17.5
TMW-4	8:32	No/Yes	-	0	3.75		PID = 64.5



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
TMW-5	8:41	No/yes	-	0	7.60 3.31		195.8 ppm PID PID=137
TMW-6	8:46	No/yes	-	0	195.6 2.91 RH		195.8 ppm PID

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002 Well ID A-5

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Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Date 7/29/13
Weather Sunny, 80°F

Measuring Pt. TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 4
 Static Water Level (ft-btoc) 7.88 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA
 TOC Elevation NA Pump Intake (ft-btoc) 12 Purge Method: Low-flow
 Pump On/Off 1658 Volumes Purged NA Centrifugal
 Submersible
 Other

Well Material X PVC
SS
Initial PID Reading (ppm) 42.3
Sample Method Peristaltic Pump

Sample Time: Label 1715 Replicate/ Code No. NA
 Start 1710
 End 1715

Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1700	2	250	7.97	0.1	6.68	1.75	26.3	2.0	20.4	-150	clear	no
1703	5	250	7.97	0.3	6.65	1.78	2.9	1.6	20.2	-152	↓	↓
1706	8	250	7.97	0.4	6.63	1.77	2.9	1.5	20.2	-153	↓	↓
1709	11	250	7.97	0.5	6.63	1.63	3.0	1.5	20.2	-153	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	<u>VOA</u>	<u>3</u>	<u>HCl</u>
BTEX	_____	_____	_____
DRO/HO-	_____	_____	_____
Nitrate	_____	_____	_____
Sulfate/Diss.-Fe	_____	_____	_____
Sulfide	_____	_____	_____
Total-Fe	_____	_____	_____
Ferrous-Fe	_____	_____	_____
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" = 0.08	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information
 Well Location: NE of fishing pier, A yard
 Condition of Well: fair
 Well Completion: Flush Mount / Stick Up
 Well Locked at Arrival: Yes / NO
 Well Locked at Departure: Yes / NO
 Key Number To Well: NA



Groundwater Sampling Form

Project No. WA000804.0002

Well ID A-21

Date 7/29/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 80°F

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

Well Material X PVC SS

Static Water Level (ft-btoc) 7.59 Total Depth (ft-btoc) NA Water Column/Gallons in Well NA

Initial PID Reading (ppm) 0.3

TOC Elevation NA Pump Intake (ft-btoc) 11 Purge Method: Low-flow Centrifugal Submersible Other

Sample Method Peristaltic Pump

Pump On/Off 1630j Volumes Purged NA Sample Time: Label 1700 Replicate/Start 1650 Code No. NA End

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Table with 13 columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMhos), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows include data for times 1640, 1643, 1646, 1649.

Table with 4 columns: Constituents Sampled, Container, Number, Preservative. Rows include GRO, BTEX, DRO/HQ, Nitrate, Sulfate/Diss. Fe., Sulfide, Total Fe., Ferrous Fe., Methane.

Well Casing Volumes table with columns for Gallons/Foot and casing diameters (1", 1.5", 2", 2.5", 3", 3.5", 4", 6").

Well Information

Well Location: W side of KMLT office 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. WA000804.0002 Well ID A-23R

Date 7/29/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75°F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 8.92 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.1

TOC Elevation NA Pump Intake (ft-btoc) 12 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1345/1404 Volumes Purged <1 Centrifugal NA Submersible ↓ Other ↓

Sample Time: Label 1410 Replicate/ Code No. NA
Start 1400
End 1404

Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1340	3	250	8.95	0.1	6.08	34.7	18.3	2.0	17.0	9	clear	no
1351	6	250	8.95	0.3	6.13	34.0	27.0	1.5	17.0	2	↓	↓
1354	9	250	8.94	0.4	6.31	33.6	21.1	1.4	17.0	-2	↓	↓
1357	12	250	8.95	0.5	6.33	33.6	22.5	1.4	17.0	-3	↓	↓
1400	15	250	8.95	0.6	6.36	33.6	19.6	1.4	17.0	-7	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VOA	3	HCl
BTEX	"		
ORO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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" = 0.102	3" = 0.37	4" = 0.653	

Well Information

Well Location: Part of Seattle pump, W 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

ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID A-27

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather overcast, 55°F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 10.69 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 556

TOC Elevation NA Pump Intake (ft-btoc) 12 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 7:33 Volumes Purged NA Centrifugal
Submersible
Other

Sample Time: Label 600 Replicate/ Code No. BD-1
Start 750
End 758

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

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
7:35	2	250	10.74	0.1	5.68	0.364	0.5	4.8	16.1	-12	clear	yes
7:38	5	250	10.79	0.3	5.69	0.311	0.4	2.7	15.9	-16		
7:41	8	250	10.80	0.4	5.60	0.272	0.4	1.9	15.9	-21		
7:44	11	250	10.80	0.5	5.52	0.250	0.3	1.6	15.7	-21		
7:47	14	250	10.80	0.6	5.51	0.255	0.3	1.5	15.7	-25		
7:50	17	250	10.80	0.8	5.51	0.248	0.3	1.5	15.6	-26		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	3	HCl
BTEX			
DRPHO			
Nitrate	poly	1	HNO ₃ OR H ₂ SO ₄
Sulfate/Diss. Fe	poly	1	-
Sulfide	glass bottle	1	Zn Acetate
Total Fe	poly	1	HNO ₃
Barium Fe			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.08	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.853	

Well Information

Well Location: SW corner of B Yard, outside wall E of 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: NA

ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002

Well ID A-26R

Date 7/27

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75°F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 8.21 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 262.1

TOC Elevation NA Pump Intake (ft-btoc) 11 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1515 Volumes Purged NA Centrifugal Submersible Other

Sample Time: Label 1540 Replicate/ Start Code No. NA End

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
1517	2	250	8.23	0.1	6.23	0.536	19.2	1.6	18.0	-100	clear	yes
1520	5	250	8.23	0.3	6.19	0.527	21.9	1.7	17.9	-102	↓	↓
1523	8	250	8.23	0.4	6.11	0.526	21.1	1.5	17.7	-101	↓	↓
1526	11	250	8.23	0.5	6.09	0.526	21.6	1.5	17.7	-99	↓	↓
1529	14	250	8.23	0.6	6.06	0.526	19.6	1.5	17.7	-98	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	<u>VDAS</u>	<u>3</u>	<u>HCl</u>
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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	<u>2" = 0.162</u>	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

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Project No. WA000804.0002 Well ID 11N-6

Date 7/29/13

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75°F

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

Well Material X PVC SS

Static Water Level (ft-btoc) 7.34 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.1

TOC Elevation NA Pump Intake (ft-btoc) 10 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1447/1505 Volumes Purged NA Centrifugal Submersible Other Other

Sample Time: Label 1510 Replicate/ Code No. NA Start 1503 End 1505

Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1450	3	250	7.36	0.1	6.33	0.589	15.0	2.7	18.3	46	clear	no
1453	6	250	7.36	0.3	6.29	0.470	19.5	1.7	18.1	38	↓	↓
1456	9	250	7.36	0.4	6.26	0.470	21.2	1.6	18.1	23	↓	↓
1459	12	250	7.37	0.5	6.24	0.475	18.7	1.5	18.1	10	↓	↓
1502	15	250	7.37	0.	6.23	0.478	19.1	1.5	17.9	-2	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	<u>VOA</u>	<u>3</u>	<u>HCl</u>
BTEX			
GRO/HQ			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Reactive Fe			
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	<u>4" = 0.653</u>	

Well Information

Well Location: SW corner of D Yard, outside 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. WA000804.0002 Well ID MW-7

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75F

Measuring Pt. TOC Screen NA Casing Diameter (in.) 4 Well Material X PVC
SS

Static Water Level (ft-btoc) 3.16 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 10.4

TOC Elevation NA Pump Intake (ft-btoc) 6 Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other

Pump On/Off 1204/1225 Volumes Purged NA Sample Time: Label 1225 Replicate/ Code No. NA Start 1217 End 1225 Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1207	3	250	3.16	0.1	6.91	0.190	28.7	7.7*	18.7	-91	clear	yes
1210	6	250	3.23	0.3	6.97	0.189	29.4	6.5	18.5	-99	↓	↓
1213	9	250	3.28	0.4	7.00	0.189	28.2	6.1	18.8	-103	↓	↓
1216	12	250	3.28	0.5	6.93	0.189	30.0	5.9	18.6	-110	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VDA	3	HCl
BTEX			
DRO/HO			
Nitrate	Poly	1	H2SO4
Sulfate/Diss. Fe	Poly	1	-
Sulfide	Glass	1	Zn Acetate
Total Fe	Poly	1	HNO3
Ferrous Fe			
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" = 0.658	

Well Information

Well Location: SE side of T25, B 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

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Project No. WA000804.0002 Well ID MW-9

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather overcast 60°F

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

Well Material X PVC SS

Static Water Level (ft-btoc) 3.19 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 2.7

TOC Elevation NA Pump Intake (ft-btoc) 5 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 905/929 Volumes Purged NA Centrifugal Submersible Other

Sample Time: Label 930 Replicate/ Code No. NA
Start 917
End 929

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10% Cond. (µMhos) (mg/cm)	10% Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
907	2	300	3.21	0.1	6.07	0.119	14.4	6.9*	17.9	-10	clear	no
910	5	300	3.23	0.3	5.89	0.117	15.9	6.2	17.9	-11	↓	↓
913	8	300	3.23	0.4	5.81	0.117	16.6	5.9	17.9	-15	↓	↓
916	11	300	3.23	0.5	5.79	0.116	18.2	5.8	17.9	-26	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VIA	3	HCl
BTEX			↓
DRO/HO			↓
Nitrate	Poly	1	H ₂ SO ₄
Sulfate/Diss. Fe	"	1	-
Sulfide	Glass	1	Zn acetate
Total Fe	Poly	1	HNO ₃
Ferrous Fe			
Methane	VOA	2	HCl

* Dissolved oxygen readings outside normal range.

Well Casing Volumes	1"	1.5"	2.5"	3.5"	6"
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: N side of tank 26, S side of T33 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. WA000804.0002

Well ID MW-14

Page 1 of 1

Date 7-30-2013

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Overcast

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA

Casing Diameter (in.) 4

Well Material PVC SS

Static Water Level (ft-btoc) 3.90 Total Depth (ft-btoc) NA

Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 7.9

TOC Elevation NA Pump Intake (ft-btoc) 6

Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 8:35/8:50 Volumes Purged NA

Centrifugal
 Submersible
 Other

Sample Time: Label 8:50 Replicate/ Start 8:48 Code No. End 8:50

Sampled by KH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

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
8:36	0	250	3.91	0	6.38	0.234	0.6	9.5	17.4	-56	clear	none
8:39	3	1	3.96	0.1	6.30	0.252	0.5	3.1	17.5	-57		
8:42	6	1	4.01	0.2	6.27	0.253	0.4	2.4	17.6	-60		
8:45	9	1	4.01	0.3	6.26	0.253	0.4	2.5	17.7	-61		
8:48	12	1	4.01	0.4	6.25	0.254	0.4	2.5	17.7	-63		

Constituents Sampled	Container	Number	Preservative
GRO	<u>VOA</u>	<u>3</u>	<u>HCl</u>
BTEX	<u>1</u>	<u>1</u>	<u>1</u>
DRMRO			
Ammonia			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.28	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: D-Yard
 Condition of Well: Good
 Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes No
 Well Locked at Departure: Yes No
 Key Number To Well: 114

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002

Well ID MW-18

Page 1 of 1

Date 7/25/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75 F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 7.63 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.1

TOC Elevation NA Pump Intake (ft-btoc) 10 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1410/1439 Volumes Purged NA Centrifugal
Submersible
Other

Sample Time: Label 1440 Replicate/ Code No. NA
Start 1435
End 1439

Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1420	2	250	7.65	0.1	6.98	2.02	19.1	1.8	18.3	-137	slight yellow	no
1423	5	250	7.66	0.3	6.81	1.63	20.6	1.6	18.2	-134		
1426	8	250	7.67	0.4	6.73	1.52	21.2	1.6	18.1	-128		
1429	11	250	7.67	0.5	6.62	0.91	2.9	1.6	18.0	-126		
1432	14	250	7.66	0.6	6.65	0.90	3.0	1.5	17.9	-119		
1435	17	250	7.67	0.8	6.59	0.87	3.0	1.5	18.0	-121		

Constituents Sampled	Container	Number	Preservative
GRO	<u>VUA</u>	<u>3</u>	<u>HCl</u>
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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	<u>2" = 0.102</u>	3" = 0.37	4" = 0.653	

Well Information

Well Location: E side Shell terminal, W side 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: NA



Groundwater Sampling Form

Project No. WA000804.0002

Well ID MW-109

Page 1 of 1

Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Overcast

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC SS Static Water Level (ft-btoc) 3.56 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 19.1 TOC Elevation NA Pump Intake (ft-btoc) 8 Purge Method: Low-flow Centrifugal Submersible Other Sample Method Peristaltic Pump Pump On/Off 9:09/9:25 Volumes Purged NA Sample Time: Label 9:25 Replicate/ Code No. Start 9:18 End 9:25 Sampled by KH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

Table with 12 columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMhos), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows 1-4 contain handwritten data.

Table with 4 columns: Constituents Sampled, Container, Number, Preservative. Rows include GRO, BTEX, DROM, Nitrate, Sulfate/Diss. Fe, Sulfide, Total Fe, Ferrous Fe, Methane.

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: D-Yard, Condition of Well: Good, Well Completion: Flush Mount / Stick Up, Well Locked at Arrival: Yes / No, Well Locked at Departure: Yes / No, Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002 Well ID MW-21 Page 1 of 1
 Date 7/30/13

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather overcast, 55°F

Measuring Pt. TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC
SS
 Static Water Level (ft-btoc) 3.31 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) _____
 TOC Elevation NA Pump Intake (ft-btoc) 5 Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other
 Pump On/Off 8:27/8:42 Volumes Purged NA
 Sample Time: Label 840 Replicate/ Code No. NA
 Start 838
 End 842
 Sampled by PH

Stabilized Range: <2 ft below static per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%	10%	Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
8:29	2	250	3.64	2.1	5.36	0.089	22.1	5.7	19.3	-69	yellow	no
8:32	5	257	3.67	0.3	5.47	0.090	19.1	5.6	19.0	-107		
8:35	8	250	3.72	0.4	5.50	0.090	25.3	5.6	18.6	-113		
8:38	11	250	3.80	0.5	5.52	0.091	30.7	5.5	18.7	-109	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO		3	HCl
BTEX			
DRO/HO			
Nitrate		3	↓
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
Methane			

* Dissolved oxygen reading appears to be outside normal range.

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 of T22 in B 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. WA000804.0002 Well ID MW-23 Page 1 of 1
 Date 7/29/13

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 80°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 4 Well Material PVC SS
 Static Water Level (ft-btoc) 7.47 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 217.7
 TOC Elevation _____ Pump Intake (ft-btoc) 11 Purge Method: Low-flow Centrifugal Submersible Other _____ Sample Method Peristaltic Pump
 Pump On/Off 1611 Volumes Purged NA Sample Time: Label 1040 Replicate/ Start _____ Code No. NA End _____ Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1613	2	250	7.51	0.1	6.13	13.8	18.2	1.4	18.0	-103	clear	yes
1616	5	250	7.52	0.3	6.12	13.9	19.6	1.5	17.7	-108	↓	↓
1619	8	250	7.52	0.4	6.11	14.0	20.8	1.4	17.7	-110	↓	↓
1622	11	250	7.52	0.5	6.11	14.6	20.8	1.4	17.6	-111	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	<u>VOA</u>	<u>3</u>	<u>HCl</u>
BTEX	<u>"</u>		
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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" = 0.858	

Well Information
 Well Location: Subbound line of 13th Ave SW, W of fueling rack 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. WA000804.0002 Well ID MW-24 Page 1 of 1
 Date 7/29/13
 Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 80°F
 Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 4 Well Material X PVC SS
 Static Water Level (ft-btoc) 7.58 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 344.8
 TOC Elevation NA Pump Intake (ft-btoc) 17 Purge Method: Low-flow Sample Method Peristaltic Pump
 Pump On/Off 1546 Volumes Purged NA Centrifugal Submersible Other
 Sample Time: Label 1610 Replicate/ Code No. NA Start 1604 End 1607 Sampled by RH

Stabilized Range: <2 ft below static per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
<u>1551</u>	<u>3</u>	<u>250</u>	<u>7.61</u>	<u>0.1</u>	<u>6.49</u>	<u>1.31</u>	<u>19.2</u>	<u>1.7</u>	<u>17.0</u>	<u>-154</u>	<u>clear</u>	<u>yes</u>
<u>1554</u>	<u>6</u>	<u>250</u>	<u>7.61</u>	<u>0.3</u>	<u>6.49</u>	<u>1.29</u>	<u>20.3</u>	<u>1.6</u>	<u>16.8</u>	<u>-155</u>	<u>↓</u>	<u>↓</u>
<u>1557</u>	<u>9</u>	<u>250</u>	<u>7.61</u>	<u>0.4</u>	<u>6.49</u>	<u>1.28</u>	<u>20.9</u>	<u>1.4</u>	<u>16.7</u>	<u>-155</u>	<u>↓</u>	<u>↓</u>
<u>1600</u>	<u>12</u>	<u>250</u>	<u>7.62</u>	<u>0.5</u>	<u>6.48</u>	<u>1.28</u>	<u>22.6</u>	<u>1.4</u>	<u>16.7</u>	<u>-156</u>	<u>↓</u>	<u>↓</u>
<u>1603</u>	<u>15</u>	<u>250</u>	<u>7.62</u>	<u>0.6</u>	<u>6.47</u>	<u>1.28</u>	<u>22.0</u>	<u>1.3</u>	<u>16.7</u>	<u>-155</u>	<u>↓</u>	<u>↓</u>

Constituents Sampled	Container	Number	Preservative
GRO	<u>3 Vials</u>	<u>3</u>	<u>HCl</u>
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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: southbound lane of 13th Ave SW, S of Leander 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. WA000804.0002

Well ID TMW-1

Page 1 of 1

Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Partly Sunny

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 3.72 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.6

TOC Elevation NA Pump Intake (ft-btoc) 8 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 10:25/10:50 Volumes Purged NA

Centrifugal _____
Submersible _____
Other _____

Sample Time: Label 10:50 Replicate/ Start 10:40 Code No. End 10:50

Sampled by KH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

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
10:27	0	250	3.73	0	6.45	2.32	18.2	2.9	19.7	-6	clear	None
10:30	3		3.74	0.1	6.43	2.77	22.2	2.4	19.5	-16		
10:33	6		3.74	0.2	6.43	3.02	23.2	2.0	19.4	-31		
10:36	9		3.74	0.3	6.41	3.09	24.2	1.8	19.2	-32		
10:39	12		3.74	0.4	6.42	3.11	23.7	1.7	19.1	-32		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DREMS			
Nitrate	<u>Poly</u>	<u>1</u>	<u>HNO3</u>
Sulfate/Diss. Fe	<u>Poly</u>	<u>1</u>	<u>H2SO4</u>
Sulfide	<u>Glass</u>	<u>1</u>	<u>Zn Acetate</u>
Total Fe	<u>Poly</u>		<u>HNO3</u>
Ferrous Fe			
Methane	<u>VOA</u>	<u>2</u>	<u>HCl</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" = 0.08	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: D-Yes

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002 Well ID TMW-2 Page 1 of 1
 Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather overcast

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC
SS
 Static Water Level (ft-btoc) 3.94 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 30.7
 TOC Elevation NA Pump Intake (ft-btoc) 8 Purge Method: Low-flow Sample Method Peristaltic Pump
 Pump On/Off 9:43/10:10 Volumes Purged NA Centrifugal _____
 Submersible _____
 Other _____
 Sample Time: Label 10:00 Replicate/ Code No. -
 Start 9:45
 End 10:00
 Sampled by KH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
9:45	0	250	4.00	0	6.53	0.547	0.5	2.9	18.7	-41.2	clear	none
9:48	3	1	4.00	20.1	6.52	0.529	0.3	1.7	18.6	-27.3	1	1
9:51	6	1	4.01	20.2	6.50	0.523	0.3	1.6	18.6	-21.1	1	1
9:54	9	1	4.01	20.3	6.49	0.516	0.3	1.4	18.6	-13.9	1	1

Constituents Sampled	Container	Number	Preservative
ORP	HOA	3	HCl
PEX	5	2	1
BRNO			
Nitrate	Poly	1	HNO ₂
Sulfate/Diss. Fe	Poly	1	H ₂ SO ₄
Sulfide	Poly/Glass	1	Zn Acetate
Total Fe	Poly		
Formic Ac			
Methane	VOA	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: D-4 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 1 of 1

Project No. WA000804.0002

Well ID TMW-3

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny 75°F

Measuring Pt. TOC Screen Setting (ft-bmp) 5-15 Casing Diameter (in.) 2

Well Material X PVC SS

Static Water Level (ft-btoc) 3.91 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 17.5

TOC Elevation NA Pump Intake (ft-btoc) 6 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 12:40 Volumes Purged NA

Centrifugal _____
Submersible _____
Other _____

Sample Time: Label 1300 Replicate/ Code No. NA
Start 1256
End _____

Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1243	3	250	4.07	0.1	7.19	0.272	30.2	6.8 ^{PH}	18.4	-146	clear	uds
1246	6	250	4.07	0.3	7.21	0.283	35.8	6.3	18.3	-147		
1249	9	250	4.07	0.5	7.21	0.286	33.3	5.9	18.3	-148		
1252	12	250	4.07	0.6	7.20	0.283	29.6	5.8	18.3	-147		
1255	15	250	4.07	0.8	7.21	0.269	29.0	5.7	18.2	-148		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DRO/HO			
Nitrate	Poly	1	H2SO4
Sulfate/Diss. Fe	Poly	1	None
Sulfide	Glass	1	Zinc Acetate
Total Fe	Poly	1	HNO3
Ferrous Fe			
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: WSW of T21, B 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. WA000804.0002 Well ID TMW-4 Page 1 of 1
 Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC
SS
 Static Water Level (ft-btoc) 3.75 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 64.5
 TOC Elevation NA Pump Intake (ft-btoc) 7 Purge Method: Low-flow Sample Method Peristaltic Pump
 Pump On/Off 12:45/13:10 Volumes Purged NA Centrifugal _____
 Submersible _____
 Other _____
 Sample Time: Label 13:00 Replicate/ Code No. _____
 Start 13:00
 End 13:10
 Sampled by KH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
12:47	0	250	3.89	0	6.16	0.272	15.5	2.1	19.4	-67	Clear	None
12:50	3		3.89	no.1	6.15	0.271	0.7	1.9	19.1	-68		
12:53	6		3.89	no.2	6.13	0.277	0.7	1.8	19.1	-69		
12:56	9		3.89	no.3	6.14	0.276	0.8	1.7	19.1	-69		

Constituents Sampled	Container	Number	Preservative
GRE			
PEX			
POLIO			
Nitrate	Poly	1	HNO ₃
Sulfate/Diss. Fe	Poly	1	H ₂ SO ₄
Sulfide	Glass	1	Zn acetate
Total Fe	Poly	1	HNO ₃
Asbestos			
Methane	VOA	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" = 0.853	

Well Information
 Well Location: B- 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. WA000804.0002

Well ID TMW-5

Page 1 of 1

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny, 65°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) 5-15

Casing Diameter (in.) 2

Well Material X PVC SS

Static Water Level (ft-btoc) 3.3' Total Depth (ft-btoc) 11A

Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 13.4

TOC Elevation NA Pump Intake (ft-btoc) 6

Purge Method: Low-flow
Centrifugal
Submersible
Other

Sample Method Peristaltic Pump

Pump On/Off 953/1019 Volumes Purged NA

Sample Time: Label 1015 Replicate/ Code No. NA
Start 1012
End 1019

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%	Turbidity (NTU)	10%	Temp. (°C)	Redox ORP (mV)	Appearance	
						Cond. (µMhos) (mS/cm)		Dissolved Oxygen (mg/L)			Color	Odor
956	3	250	3.36	0.1	7.16	0.283	13.8	6.3	20.5	-183	clear	no
959	6	250	3.37	0.3	7.20	0.289	9.1	6.1	20.3	-198		
1002	9	250	3.37	0.4	7.15	0.295	9.4	5.3	20.1	-192		
1005	12	250	3.37	0.5	6.99	0.363	13.6	4.8	19.8	-187		
1008	15	250	3.37	0.6	6.93	0.391	15.2	4.6	19.7	-185		
1011	18	250	3.37	0.8	6.92	0.398	15.1	4.6	19.7	-185		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe	<u>Poly</u>	<u>1</u>	<u>H₂SO₄</u>
Sulfide	<u>↓</u>	<u>1</u>	<u>none</u>
Total Fe	<u>glass</u>	<u>1</u>	<u>Zn Acetate</u>
Ferrous-Fe	<u>Poly</u>	<u>1</u>	<u>HNO₃</u>
Methane	<u>VOA</u>	<u>2</u>	<u>HCl</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	<u>2" = 0.162</u>	3" = 0.37	4" = 0.653	

Well Information

Well Location: SW of T25 in B yard

Condition of Well: good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NA



ARCADIS Groundwater Sampling Form

Project No. WA000804.0002 Well ID TMN-6

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny 65°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) S-15 Casing Diameter (in.) 2

Well Material X PVC SS

Static Water Level (ft-btoc) 2.91 Total Depth (ft-btoc) 5-15 RH Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 195.6

TOC Elevation NA Pump Intake (ft-btoc) 6 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1027 / 1053 Volumes Purged NA Centrifugal Submersible Other

Sample Time: Label 1045 Replicate/ Start 1041 Code No. NA End 1053

Sampled by RH

Stabilized Range: <2 ft below static per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		10%		Temp. (°C)	Redox ORP (mV)	Appearance	
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Color			Odor	
1029	2	150	2.97	0.1	6.59	0.190	43.6	5.6*	17.1	-89	slight yellow	yes	
1033	6	150	3.03	0.3	6.59	0.182	41.3	5.5	16.9	-97	↓	↓	
1037	9	250	3.03	0.4	6.57	0.182	39.5	5.1	16.9	-100	↓	↓	
1040	12	250	3.03	0.5	6.50	0.185	38.4	5.0	16.8	-102	↓	↓	
104 RH													

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DRO/HO			
Nitrate	<u>Poly</u>	<u>1</u>	<u>10% NaOH</u>
Sulfate/Diss. Fe	<u>↓</u>	<u>1</u>	<u>none</u>
Sulfide	<u>Amber Glass</u>	<u>1</u>	<u>Zn Acetate</u>
Total Fe	<u>Poly</u>	<u>1</u>	<u>HNO3</u>
Ferrous Fe			
Methane	<u>VOA</u>	<u>2</u>	<u>HCl</u>

* Dissolved oxygen readings outside of normal range.

Well Casing Volumes	1"	1.5"	2.5"	3.5"	6"
Gallons/foot	0.04	0.09	0.26	0.50	1.47
	0.08	<u>0.182</u>	0.37	0.653	

Well Information

Well Location: W of T32 E of T33, B 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 1 of 1

Project No. WA000804.0002 Well ID 11

Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny

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

Well Material PVC SS

Static Water Level (ft-btoc) 4.99 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.2

TOC Elevation NA Pump Intake (ft-btoc) 7 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 12:09 / 12:35 Volumes Purged NA

Sample Time: Label 12:30 Replicate/ Code No. -
Start 12:27
End 12:35

Sampled by KH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance	
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Color	Odor
12:12	0	250	5.02	0	6.65	0.113	0.8	3.1	23.4	-7	clear none
12:15	3		5.04	~0.1	6.49	0.109	0.8	2.2	23.1	-5	
12:18	6		5.09	~0.2	6.44	0.103	0.8	1.9	22.9	-3	
12:21	9		5.11	~0.3	6.41	0.094	0.8	1.8	22.9	-2	
12:24	12		5.13	~0.4	6.38	0.089	0.8	1.7	22.8	0	
12:27	15		5.15	~0.5	6.37	0.089	0.9	1.7	22.7	1	

Constituents Sampled	Container	Number	Preservative
CR6			
STEX			
SRMO			
Nitrate	Poly	1	HNO ₃
Sulfate/Diss. Fe	Poly	1	H ₂ SO ₄
Sulfide	Glass	1	Zn Acetate
Total Fe	Poly	1	HNO ₃
Perforous Fe			
Methane			
	VDA	2	

Well Casing Volumes	1"	1.5"	2.5"	3.5"	6"
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: 15-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



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date: 7/25/13

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-4	12:00	No/No	—	0	7.23		PID = 44.3
A-5	11:48	No/Yes	—	0	7.88		PID: 42.3 ppm
A-6	12:04 11:56	No/No	—	0	6.83 7.98		PID = 72.0 114.7 ppm Removed abs. suck
A-8	11:56	No/No	—	0	7.98		PID: 114.7 72.0 ppm
A-10	11:26	No/No	—	0	6.95 6.95		PID: 0.5 ppm 0.5 KAH
A-11	11:36	No/No	—	0	7.75		PID = 0.1 ppm
A-12	11:16	No/No	—	0	6.58		PID: 0.1 ppm
A-14R	11:24	No/No	—	0	7.67		PID: 0.1 ppm
A-16	11:42	No/Yes	—	0	7.88		PID: 369.1 ppm
A-18	11:31	No/No	—	0	7.99		PID: 0.3 ppm
A-19	11:12	No/No	—	0	7.93		PID: 0.4 ppm
A-20	11:07	No/No	—	0	7.46		PID: 0.2 ppm
A-21	11:01	No/No	—	0	7.59		PID: 0.3 ppm
A-22R	12:21 12:21	No/Yes	—	0	7.64		PID: 491.7 ppm
A-23R	13:15	No/No	—	0	8.92		PID = 0.0 ppm
A-25	12:10	/Yes	—	0	7.52		PID: 73.8 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date: 7/29/13

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-26R	10:47	No/Yes	—	0	7.69		PID = 105.0 ppm
A-27	10:39	Yes/Yes	—	0	10.69		556.0 ppm PID
A-28R	10:42	No/Yes	—	0	8.20		262.1 ppm PID
11	8:36	No/No	—	0	4.99		0.2 ppm PID
12	8:43	Yes/Yes	—	0	3.95		360.2 ppm PID
MW-07R	9:36	No/No	—	0	6.70		0.1 ppm
MW-1	10:07	No/No	—	0	6.19		PID = 0.2 ppm
MW-2	10:14	No/No	—	0	7.82		PID = 0.1 ppm
MW-3	9:18	No/No	—	0	3.78		PID 0.0 ppm
MW-4	9:52	No/No	—	0	7.02		PID = 32.4 ppm
MW-5	8:03	No/No	⊕	0	3.41		PID = 0.0 ppm
MW-6	10:36	No/No	—	0	7.34		PID = 0.1 ppm
MW-7	8:18	No/No	⊕	0	3.16		PID: 10.4 ppm
MW-8	9:05	No/No	—	0	3.25		PID 0.0 ppm
MW-9	8:52	No/No	⊕	0	3.19		PID: 4.3 ppm
MW-12R	9:45	No/No	—	0	7.84		PID = 3.1 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
MW-14	8:09	No/No	-	0	3.90		PID = 2.9
MW-16	10:27	No/No	-	0	7.31		PID = 0.1
MW-18	10:20	No/No	-	0	7.63		PID = 0.1 ppm
MW-19	7:42	No/No	-	0	3.56		PID = 19.1
MW-20	9:13	No/No	-	0	4.93		PID = 0.0 ppm
MW-21	8:58	No/No	-	0	3.31		PID = 0.0 ppm
MW-22	10:32	No/No	-	0	8.59		PID = 0.1 ppm
MW-23	10:59	No/Yes	-	0	7.47		PID = 217.7 ppm Abs. sock removed
MW-24	10:53	No/Yes	-	0	7.58		PID = 344.8 ppm
SH-02R	10:00	No/No	-	0	5.98		PID = 2.9 ppm
SH-05R	9:28	No/No	-	0	7.25		PID = 0.1 ppm
TMW-B1	10:40	No/Yes	-	0	7.80		PID = 522.1
TMW-1	7:49	No/No	-	0	3.72		PID = 0.6
TMW-2	7:55	No/slight	-	0	3.94		PID = 30.7
TMW-3	8:25	No/slight	-	0	3.91		PID = 17.5
TMW-4	8:32	No/Yes	-	0	3.75		PID = 64.5



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date:

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
TMW-5	8:41	No/yes	-	0	7.60 3.31		195.8 ppm PID PID=137
TMW-6	8:46	No/yes	-	0	195.6 2.91 RH		195.8 ppm PID

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002 Well ID A-5 Page 1 of 1
 Date 7/29/13

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 80°F

Measuring Pt. TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 4 Well Material X PVC
SS
 Static Water Level (ft-btoc) 7.88 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 42.3
 TOC Elevation NA Pump Intake (ft-btoc) 12 Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other
 Pump On/Off 1650 Volumes Purged NA
 Sample Time: Label 1715 Replicate/ Code No. NA
 Start 1710
 End 1715
 Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1700	2	250	7.97	0.1	6.66	1.75	26.3	2.0	20.4	-150	clear	no
1703	5	250	7.97	0.3	6.65	1.78	2.9	1.6	20.2	-152	↓	↓
1706	8	250	7.97	0.4	6.63	1.77	2.9	1.5	20.2	-153	↓	↓
1709	11	250	7.97	0.5	6.63	1.63	3.0	1.5	20.2	-153	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	<u>VOA</u>	<u>3</u>	<u>HCl</u>
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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" = 0.08	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: NE of fishing pier, A yard Well Locked at Arrival: Yes / NO
 Condition of Well: fair Well Locked at Departure: Yes / NO
 Well Completion: Flush Mount / Stick Up Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002

Well ID A-21

Date 7/29/13

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 80°F

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

Well Material PVC SS

Static Water Level (ft-btoc) 7.59 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.3

TOC Elevation NA Pump Intake (ft-btoc) 11 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1630j Volumes Purged NA Centrifugal Submersible Other

Sample Time: Label 1700 Replicate/ Code No. NA Start 1650 End _____

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
1640	2	250	7.65	0.1	6.61	41.1	15.2	3.2	17.9	-82	clear	no
1643	5	250	7.66	0.3	6.72	41.1	18.4	1.5	17.6	-81	↓	↓
1646	8	250	7.65	0.4	6.72	41.4	18.9	1.4	17.6	-81	↓	↓
1649	11	250	7.65	0.5	6.71	41.3	18.9	1.4	17.6	-80	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VDA	3	HCl
BTEX			
DRO/HQ			
Nitrate			
Sulfate/Diss. Fe.			
Sulfide			
Total Fe			
Ferrous Fe			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.08	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.853	

Well Information

Well Location: W side of KMLT office 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. WA000804.0002 Well ID A-23R

Date 7/29/13

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75°F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 8.92 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.1

TOC Elevation NA Pump Intake (ft-btoc) 12 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1345/1404 Volumes Purged <1 Centrifugal NA Submersible ↓ Other ↓

Sample Time: Label 1410 Replicate/ Code No. NA
Start 1400
End 1404

Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1340	3	250	8.95	0.1	6.08	34.7	18.3	2.0	17.0	9	clear	no
1351	6	250	8.95	0.3	6.13	34.0	27.0	1.5	17.0	2	↓	↓
1354	9	250	8.94	0.4	6.31	33.6	21.1	1.4	17.0	-2		
1357	12	250	8.95	0.5	6.33	33.6	22.5	1.4	17.0	-3		
1400	15	250	8.95	0.6	6.36	33.6	19.6	1.4	17.0	-7		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	3	HCl
BTEX	"		
ORO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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: Part of Seattle prop, W 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

ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID A-27

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather overcast, 55°F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 10.69 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 556

TOC Elevation NA Pump Intake (ft-btoc) 12 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 7:33 Volumes Purged NA Centrifugal
Submersible
Other

Sample Time: Label 600 Replicate/ Code No. BD-1
Start 750
End 758

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

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
7:35	2	250	10.74	0.1	5.68	0.364	0.5	4.8	16.1	-12	clear	yes
7:38	5	250	10.79	0.3	5.69	0.311	0.4	2.7	15.9	-16		
7:41	8	250	10.80	0.4	5.60	0.272	0.4	1.9	15.9	-21		
7:44	11	250	10.80	0.5	5.52	0.250	0.3	1.6	15.7	-21		
7:47	14	250	10.80	0.6	5.51	0.255	0.3	1.5	15.7	-25		
7:50	17	250	10.80	0.8	5.51	0.248	0.3	1.5	15.6	-26		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	3	HCl
BTEX			
DRPHO			
Nitrate	poly	1	HNO ₃ OR H ₂ SO ₄
Sulfate/Diss. Fe	poly	1	-
Sulfide	glass bottle	1	Zn Acetate
Total Fe	poly	1	HNO ₃
Barium Fe			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.08	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.853	

Well Information

Well Location: SW corner of B Yard, outside wall E of 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: NA

ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002

Well ID A-26R

Date 7/27

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75°F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 8.21 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 262.1

TOC Elevation NA Pump Intake (ft-btoc) 11 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1515 Volumes Purged NA Centrifugal Submersible Other

Sample Time: Label 1540 Replicate/ Code No. NA

Sampled by RH

Stabilized Range: <2 ft below static per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		10%		Temp. (°C)	Redox ORP (mV)	Appearance	
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Color			Odor	
1517	2	250	8.23	0.1	6.23	0.536	19.2	1.6	18.0	-100	clear	yes	
1520	5	250	8.23	0.3	6.19	0.527	21.9	1.7	17.9	-102	↓	↓	
1523	8	250	8.23	0.4	6.11	0.526	21.1	1.5	17.7	-101	↓	↓	
1526	11	250	8.23	0.5	6.09	0.526	21.6	1.5	17.7	-99	↓	↓	
1529	14	250	8.23	0.6	6.06	0.526	19.6	1.5	17.7	-98	↓	↓	

Constituents Sampled	Container	Number	Preservative
GRO	<u>VDAS</u>	<u>3</u>	<u>HCl</u>
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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	<u>2" = 0.162</u>	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

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Project No. WA000804.0002 Well ID 11N-6

Date 7/29/13

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75°F

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 7.34 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.1

TOC Elevation NA Pump Intake (ft-btoc) 10 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1447/1505 Volumes Purged NA Purge Method: Centrifugal
Submersible
Other

Sample Time: Label 1510 Replicate/ Code No. NA
Start 1503
End 1505

Sampled by RH

Stabilized Range: <2 ft below static per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Color	Odor	
1450	3	250	7.36	0.1	6.33	0.589	15.0	2.7	18.3	46	clear	no
1453	6	250	7.36	0.3	6.29	0.478	19.5	1.7	18.1	38	↓	↓
1456	9	250	7.36	0.4	6.26	0.470	21.2	1.6	18.1	23	↓	↓
1459	12	250	7.37	0.5	6.24	0.475	18.7	1.5	18.1	10	↓	↓
1502	15	250	7.37	0.	6.23	0.478	19.1	1.5	17.9	-2	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	<u>VOA</u>	<u>3</u>	<u>HCl</u>
BTEX			
GRO/HQ			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Reactive Fe			
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	<u>4" = 0.653</u>	

Well Information

Well Location: SW corner of D Yard, outside 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

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Project No. WA000804.0002 Well ID MW-7

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny, 75F

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

Static Water Level (ft-btoc) 3.16 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 10.4

TOC Elevation NA Pump Intake (ft-btoc) 6 Purge Method: Low-flow Sample Method Peristaltic Pump

Pump On/Off 1204/1225 Volumes Purged NA Centrifugal Submersible Other Other

Sample Time: Label 1225 Replicate/ Start 1217 Code No. NA End 1225 Sampled by RH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1207	3	250	3.16	0.1	6.91	0.190	28.7	7.7*	18.7	-91	clear	yes
1210	6	250	3.23	0.3	6.97	0.189	29.4	6.5	18.5	-99	↓	↓
1213	9	250	3.28	0.4	7.00	0.189	28.2	6.1	18.8	-103	↓	↓
1216	12	250	3.28	0.5	6.93	0.189	30.0	5.9	18.6	-110	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VDA	3	HCl
BTEX			
DRO/HO			
Nitrate	Poly	1	H2SO4
Sulfate/Diss. Fe	Poly	1	-
Sulfide	Glass	1	Zn Acetate
Total Fe	Poly	1	HNO3
Ferrous Fe			
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" = 0.658	

Well Information

Well Location: SE side of T25, B 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

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Project No. WA000804.0002 Well ID MW-9

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather overcast 60°F

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

Well Material X PVC SS

Static Water Level (ft-btoc) 3.19 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 2.7

TOC Elevation NA Pump Intake (ft-btoc) 5 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 905/929 Volumes Purged NA Centrifugal Submersible Other

Sample Time: Label 930 Replicate/ Code No. NA
 Start 917
 End 929

Sampled by PH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10% Cond. (µMhos) (mS/cm)	10% Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
907	2	300	3.21	0.3	6.07	0.119	14.4	6.9*	17.9	-10	clear	no
910	5	300	3.23	0.3	5.89	0.117	15.9	6.2	17.9	-11	↓	↓
913	8	300	3.23	0.4	5.81	0.117	16.6	5.9	17.9	-15	↓	↓
916	11	300	3.23	0.5	5.79	0.116	18.2	5.8	17.9	-26	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VIA	3	HCl
BTEX			↓
DRO/HO			↓
Nitrate	Poly	1	H ₂ SO ₄
Sulfate/Diss. Fe	"	1	-
Sulfide	Glass	1	Zn acetate
Total Fe	Poly	1	HNO ₃
Ferrous Fe			
Methane	VOA	2	HCl

* Dissolved oxygen readings outside normal range.

Well Casing Volumes	1"	1.5"	2.5"	3.5"	6"
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: N side of tank 26, S side of T33 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. WA000804.0002

Well ID MW-14

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Date 7-30-2013

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Overcast

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA

Casing Diameter (in.) 4

Well Material PVC SS

Static Water Level (ft-btoc) 3.90 Total Depth (ft-btoc) NA

Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 7.9

TOC Elevation NA Pump Intake (ft-btoc) 6

Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 8:35/8:50 Volumes Purged NA

Centrifugal
 Submersible
 Other

Sample Time: Label 8:50 Replicate/ Start 8:48 Code No. End 8:50

Sampled by KH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
8:36	0	250	3.91	0	6.38	0.234	0.6	9.5	17.4	-56	clear	none
8:39	3	1	3.96	0.1	6.30	0.252	0.5	3.1	17.5	-57		
8:42	6	1	4.01	0.2	6.27	0.253	0.4	2.4	17.6	-60		
8:45	9	1	4.01	0.3	6.26	0.253	0.4	2.5	17.7	-61		
8:48	12	1	4.01	0.4	6.25	0.254	0.4	2.5	17.7	-63		

Constituents Sampled	Container	Number	Preservative
GRO	<u>VOA</u>	<u>3</u>	<u>HCl</u>
BTEX	<u>1</u>	<u>1</u>	<u>1</u>
DROMO			
Ammonia			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
Methane			

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.28	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: D-Yard
 Condition of Well: Good
 Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes No
 Well Locked at Departure: Yes No
 Key Number To Well: 114

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002 Well ID MW-18 Page 1 of 1
 Date 7/25/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 75 F

Measuring Pt. TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC
SS
 Static Water Level (ft-btoc) 7.63 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 0.1
 TOC Elevation NA Pump Intake (ft-btoc) 10 Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other
 Pump On/Off 1410/1439 Volumes Purged NA
 Sample Time: Label 1440 Replicate/ Code No. NA Sampled by RH
 Start 1425
 End 1439

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

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
1420	2	250	7.65	0.1	6.98	2.02	19.1	1.8	18.3	-137	slight yellow	no
1423	5	250	7.66	0.3	6.81	1.63	20.6	1.6	18.2	-134		
1426	8	250	7.67	0.4	6.73	1.52	21.2	1.6	18.1	-128		
1429	11	250	7.67	0.5	6.62	0.91	2.9	1.6	18.0	-126		
1432	14	250	7.66	0.6	6.65	0.90	3.0	1.5	17.9	-119		
1435	17	250	7.67	0.8	6.59	0.87	3.0	1.5	18.0	-121		

Constituents Sampled	Container	Number	Preservative
GRO	<u>VUA</u>	<u>3</u>	<u>HCl</u>
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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	<u>2" = 0.102</u>	3" = 0.37	4" = 0.653	

Well Information

Well Location: E side Shell terminal, W side 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: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002

Well ID MW-109

Page 1 of 1
Date 7-30-2013

Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Overcast

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

Well Material X PVC SS

Static Water Level (ft-btoc) 3.56 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 19.1

TOC Elevation NA Pump Intake (ft-btoc) 8 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 9:09/9:25 Volumes Purged NA Centrifugal Submersible Other

Sampled by KH

Sample Time: Label 9:25 Replicate/ Code No. —
Start 9:18
End 9:25

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

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
9:09	0	250	3.40	0	6.45	0.145	0.6	2.8	18.6	-86	Clear	None
9:12	3	1	3.44	~0.1	6.45	0.144	0.5	2.6	18.4	-89		
9:15	6	1	3.47	~0.2	6.43	0.143	0.5	2.6	18.5	-90		
9:18	9	1	3.45	~0.3	6.42	0.139	0.6	2.4	18.4	-91		

Constituents Sampled	Container	Number	Preservative
GRO	VOAs	3	HCl
BTEX			
DRMNO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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: D-Track 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. WA000804.0002 Well ID MW-21 Page 1 of 1
 Date 7/30/13
 Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather overcast, 55°F
 Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC
SS
 Static Water Level (ft-btoc) 3.31 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) _____
 TOC Elevation NA Pump Intake (ft-btoc) 5 Purge Method: Low-flow Sample Method Peristaltic Pump
Centrifugal
Submersible
Other
 Pump On/Off 8:27/8:42 Volumes Purged NA
 Sample Time: Label 840 Replicate/ Code No. NA
 Start 838
 End 842
 Sampled by PH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%	Turbidity (NTU)	10%	Temp. (°C)	Redox ORP (mV)	Appearance	
						Cond. (µMhos) (mS/cm)		Dissolved Oxygen (mg/L)			Color	Odor
8:29	2	250	3.64	2.1	5.36	0.089	22.1	5.7	19.3	-69	yellow	no
8:32	5	257	3.67	0.3	5.47	0.090	19.1	5.6	19.0	-107		
8:35	8	250	3.72	0.4	5.50	0.090	25.3	5.6	18.6	-113		
8:38	11	250	3.80	0.5	5.52	0.091	30.7	5.5	18.7	-109	↓	V

Constituents Sampled	Container	Number	Preservative
GRO		3	HCl
BTEX			
DRO/HO			
Nitrate		3	↓
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
Methane			

* Dissolved oxygen reading appears to be outside normal range.

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 of T22 in B 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. WA000804.0002 Well ID MW-23 Page 1 of 1
 Date 7/29/13
 Project Name/Locator KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 80°F
 Measuring Pt. TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 4 Well Material X PVC
 Description TOC Static Water Level (ft-btoc) 7.47 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 217.7
 TOC Elevation _____ Pump Intake (ft-btoc) 11 Purge Method: Low-flow Sample Method Peristaltic Pump
 Pump On/Off 1611 Volumes Purged NA Centrifugal _____
 Submersible _____
 Other _____
 Sample Time: Label 1040 Replicate/ Code No. NA Other _____
 Start _____
 End _____
 Sampled by RH

Stabilized Range: <2 ft below static 10% 10%

per Sulfate Application Workplan Addendum 2/24/2012

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
1613	2	250	7.51	0.1	6.13	13.8	18.2	1.4	18.0	-103	clear	yes
1616	5	250	7.52	0.3	6.12	13.9	19.6	1.5	17.7	-108	↓	↓
1619	8	250	7.52	0.4	6.11	14.0	20.8	1.4	17.7	-110	↓	↓
1622	11	250	7.52	0.5	6.11	14.6	20.8	1.4	17.6	-111	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VOA	3	HCl
BTEX	"		
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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" = 0.858	

Well Information

Well Location: Subbound line of 13th Ave SW, W of fueling rack 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. WA000804.0002 Well ID MW-24 Page 1 of 1
 Date 7/29/13
 Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny, 80°F
 Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 4 Well Material X PVC SS
 Static Water Level (ft-btoc) 7.58 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 344.8
 TOC Elevation NA Pump Intake (ft-btoc) 17 Purge Method: Low-flow Sample Method Peristaltic Pump
 Pump On/Off 1546 Volumes Purged NA Centrifugal Submersible _____ Other _____
 Sample Time: Label 1610 Replicate/ Code No. NA Sampled by RH
 Start 1604 End 1607

Stabilized Range: <2 ft below static per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
<u>1551</u>	<u>3</u>	<u>250</u>	<u>7.61</u>	<u>0.1</u>	<u>6.49</u>	<u>1.31</u>	<u>19.2</u>	<u>1.7</u>	<u>17.0</u>	<u>-154</u>	<u>clear</u>	<u>yes</u>
<u>1554</u>	<u>6</u>	<u>250</u>	<u>7.61</u>	<u>0.3</u>	<u>6.49</u>	<u>1.29</u>	<u>20.3</u>	<u>1.6</u>	<u>16.8</u>	<u>-155</u>	<u>↓</u>	<u>↓</u>
<u>1557</u>	<u>9</u>	<u>250</u>	<u>7.61</u>	<u>0.4</u>	<u>6.49</u>	<u>1.28</u>	<u>20.9</u>	<u>1.4</u>	<u>16.7</u>	<u>-155</u>	<u>↓</u>	<u>↓</u>
<u>1600</u>	<u>12</u>	<u>250</u>	<u>7.62</u>	<u>0.5</u>	<u>6.48</u>	<u>1.28</u>	<u>22.6</u>	<u>1.4</u>	<u>16.7</u>	<u>-156</u>	<u>↓</u>	<u>↓</u>
<u>1603</u>	<u>15</u>	<u>250</u>	<u>7.62</u>	<u>0.6</u>	<u>6.47</u>	<u>1.28</u>	<u>22.0</u>	<u>1.3</u>	<u>16.7</u>	<u>-155</u>	<u>↓</u>	<u>↓</u>

Constituents Sampled	Container	Number	Preservative
GRO	<u>3 Vials</u>	<u>3</u>	<u>HCl</u>
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe			
Sulfide			
Total Fe			
Ferrous Fe			
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: southbound lane of 13th Ave SW, S of Leander 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. WA000804.0002

Well ID TMW-1

Page 1 of 1

Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Partly Sunny

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 3.72 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.6

TOC Elevation NA Pump Intake (ft-btoc) 8 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 10:25/10:50 Volumes Purged NA Centrifugal _____
Submersible _____
Other _____

Sample Time: Label 10:50 Replicate/ Start 10:40 Code No. _____
End 10:50

Sampled by KH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

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
10:27	0	250	3.73	0	6.45	2.32	18.2	2.9	19.7	-6	clear	None
10:30	3		3.74	~0.1	6.43	2.77	22.2	2.4	19.5	-16		
10:33	6		3.74	~0.2	6.43	3.02	23.2	2.0	19.4	-31		
10:36	9		3.74	~0.3	6.41	3.09	24.2	1.8	19.2	-32		
10:39	12		3.74	~0.4	6.42	3.11	23.7	1.7	19.1	-32		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DREME			
Nitrate	<u>Poly</u>	<u>1</u>	<u>HNO3</u>
Sulfate/Diss. Fe	<u>Poly</u>	<u>1</u>	<u>H2SO4</u>
Sulfide	<u>Glass</u>	<u>1</u>	<u>Zn Acetate</u>
Total Fe	<u>Poly</u>		<u>HNO3</u>
Ferrous Fe			
Methane	<u>VOA</u>	<u>2</u>	<u>HCl</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" = 0.08	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: D-Yes

Condition of Well: Good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NA

ARCADIS Groundwater Sampling Form

Project No. WA000804.0002 Well ID TMW-2 Page 1 of 1
 Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather overcast

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC
SS
 Static Water Level (ft-btoc) 3.94 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 30.7
 TOC Elevation NA Pump Intake (ft-btoc) 8 Purge Method: Low-flow Sample Method Peristaltic Pump
 Pump On/Off 9:43/10:10 Volumes Purged NA Centrifugal _____
 Submersible _____
 Other _____
 Sample Time: Label 10:00 Replicate/ Code No. -
 Start 9:45
 End 10:00
 Sampled by LH

Stabilized Range: <2 ft below static 10% 10%
 per Sulfate Application Workplan Addendum 2/24/2012

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
9:45	0	250	4.00	0	6.53	0.547	0.5	2.9	18.7	-41.2	clear	none
9:48	3		4.00	20.1	6.52	0.529	0.3	1.7	18.6	-27.3		
9:51	6		4.01	20.2	6.50	0.523	0.3	1.6	18.6	-21.1		
9:54	9		4.01	20.3	6.49	0.516	0.3	1.4	18.6	-13.9		

Constituents Sampled	Container	Number	Preservative
ORP	HOA	3	HCl
BEK	5	2	↓
BRNO			
Nitrate	Poly	1	HNO ₂
Sulfate/Diss. Fe	Poly	1	H ₂ SO ₄
Sulfide	Poly/Glass	1	Zn Acetate
Total Fe	Poly		
Formic Ac			
Methane	VOA	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: D-4 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 1 of 1

Project No. WA000804.0002

Well ID TMW-3

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny 75°F

Measuring Pt. TOC Screen S-15 Casing Diameter (in.) 2 Well Material PVC SS

Static Water Level (ft-btoc) 3.91 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 17.5

TOC Elevation NA Pump Intake (ft-btoc) 6 Purge Method: Low-flow Centrifugal Submersible Other Sample Method Peristaltic Pump

Pump On/Off 12:10 Volumes Purged NA Sample Time: Label 1300 Replicate/ Code No. NA Sampled by RH

Start 1256 End

per Sulfate Application Workplan Addendum 2/24/2012

Stabilized Range:			<2 ft below static		10%		10%		Temp.		Appearance	
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)	Color	Odor
1243	3	250	4.07	0.1	7.19	0.272	30.2	6.8*	18.4	-146	clear	wd
1246	6	250	4.07	0.3	7.21	0.283	35.8	6.3	18.3	-147		
1249	9	250	4.07	0.5	7.21	0.286	33.3	5.9	18.3	-148		
1252	12	250	4.07	0.6	7.20	0.283	29.6	5.8	18.3	-147		
1255	15	250	4.07	0.8	7.21	0.269	29.0	5.7	18.2	-148		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DRO/HO			
Nitrate	Poly	1	H2SO4
Sulfate/Diss. Fe	Poly	1	None
Sulfide	Glass	1	Zinc Acetate
Total Fe	Poly	1	HNO3
Ferrous Fe			
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	<u>2" = 0.162</u>	3" = 0.37	4" = 0.653	

Well Information

Well Location: WSW of T21, B 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. WA000804.0002 Well ID TMW-4 Page 1 of 1
 Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134 Weather Sunny

Measuring Pt. Description TOC Screen Setting (ft-bmp) NA Casing Diameter (in.) 2 Well Material X PVC
SS
 Static Water Level (ft-btoc) 3.75 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA Initial PID Reading (ppm) 64.5
 TOC Elevation NA Pump Intake (ft-btoc) 7 Purge Method: Low-flow Sample Method Peristaltic Pump
 Pump On/Off 12:45/13:10 Volumes Purged NA Centrifugal _____
 Submersible _____
 Other _____
 Sample Time: Label 13:00 Replicate/ Code No. 1
 Start 13:00
 End 13:10 Sampled by KH

Stabilized Range: <2 ft below static 10% 10% per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
12:47	0	250	3.89	0	6.16	0.272	15.5	2.1	19.4	-67	Clear	none
12:50	3		3.89	no.1	6.15	0.271	0.7	1.9	19.1	-68		
12:53	6		3.89	no.2	6.13	0.277	0.7	1.8	19.1	-69		
12:56	9		3.89	no.3	6.14	0.276	0.8	1.7	19.1	-69		

Constituents Sampled	Container	Number	Preservative
GRE			
BEEX			
PERIO			
Nitrate	Poly	1	HNO ₃
Sulfate/Diss. Fe	Poly	1	H ₂ SO ₄
Sulfide	Glass	1	Zn acetate
Total Fe	Poly	1	HNO ₃
Ascorbic Fe			
Methane	VOA	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" = 0.853	

Well Information
 Well Location: B- 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. WA000804.0002

Well ID TMW-5

Page 1 of 1

Date 7/30/13

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather partly sunny, 65°F

Measuring Pt. Description TOC Screen Setting (ft-bmp) 5-15

Casing Diameter (in.) 2

Well Material PVC SS

Static Water Level (ft-btoc) 3.3' Total Depth (ft-btoc) 11A

Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 13.4

TOC Elevation NA Pump Intake (ft-btoc) 6

Purge Method: Low-flow Centrifugal Submersible Other

Sample Method Peristaltic Pump

Pump On/Off 953/1019 Volumes Purged NA

Sample Time: Label 1015 Replicate/ Code No. NA
Start 1012
End 1019

Sampled by RH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%	10%	Temp. (°C)	Redox ORP (mV)	Appearance		
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)			Dissolved Oxygen (mg/L)	Color	Odor
956	3	250	3.36	0.1	7.16	0.283	13.8	6.3	20.5	-183	clear	no
959	6	250	3.37	0.3	7.20	0.289	9.1	6.1	20.3	-198		
1002	9	250	3.37	0.4	7.15	0.295	9.4	5.3	20.1	-192		
1005	12	250	3.37	0.5	6.99	0.363	13.6	4.8	19.8	-187		
1008	15	250	3.37	0.6	6.93	0.391	15.2	4.6	19.7	-185		
1011	18	250	3.37	0.8	6.92	0.398	15.1	4.6	19.7	-185		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DRO/HO			
Nitrate			
Sulfate/Diss. Fe	<u>Poly</u>	<u>1</u>	<u>H₂SO₄</u>
Sulfide	<u>↓</u>	<u>1</u>	<u>none</u>
Total Fe	<u>glass</u>	<u>1</u>	<u>Zn Acetate</u>
Ferrous-Fe	<u>Poly</u>	<u>1</u>	<u>HNO₃</u>
Methane	<u>VOA</u>	<u>2</u>	<u>HCl</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	<u>2" = 0.162</u>	3" = 0.37	4" = 0.653	

Well Information

Well Location: SW of T25 in B yard

Condition of Well: good

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival: Yes / No

Well Locked at Departure: Yes / No

Key Number To Well: NA



ARCADIS Groundwater Sampling Form

Page 1 of 1Project No. WA000804.0002 Well ID TMN-6Date 7/30/13Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134Weather partly sunny 65°FMeasuring Pt. Description TOC Screen Setting (ft-bmp) S-15 Casing Diameter (in.) 2Well Material X PVC SSStatic Water Level (ft-btoc) 2.91 Total Depth (ft-btoc) 5-15 RH Water Column/ Gallons in Well NAInitial PID Reading (ppm) 195.6TOC Elevation NA Pump Intake (ft-btoc) 6 Purge Method: Low-flowSample Method Peristaltic PumpPump On/Off 1027 / 1053 Volumes Purged NA Centrifugal Submersible OtherSample Time: Label 1045 Replicate/ Code No. NASampled by RHStabilized Range: <2 ft below static per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		10%		Temp. (°C)	Redox ORP (mV)	Appearance	
						Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Color			Odor	
1029	2	150	2.97	0.1	6.59	0.190	43.6	5.6*	17.1	-89	slight yellow	yes	
1033	6	150	3.03	0.3	6.59	0.182	41.3	5.5	16.9	-97	↓	↓	
1037	9	250	3.03	0.4	6.57	0.182	39.5	5.1	16.9	-100	↓	↓	
1040	12	250	3.03	0.5	6.50	0.185	38.4	5.0	16.8	-102	↓	↓	
104 RH													

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
DRO/HO			
Nitrate	Poly	1	10% NaOH
Sulfate/Diss. Fe	↓	1	none
Sulfide	Amber Glass	1	Zn Acetate
Total Fe	Poly	1	HNO3
Ferrous Fe			
Methane	VOA	2	HCl

* Dissolved oxygen readings outside of normal range.

Well Casing Volumes	1"	1.5"	2.5"	3.5"	6"
Gallons/foot	0.04	0.09	0.26	0.50	1.47
	0.08	0.182	0.37	0.653	

Well Location: W of T32 E of T33, B 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 1 of 1

Project No. WA000804.0002 Well ID 11

Date 7-30-2013

Project Name/Location KMEP KMLT Harbor Island / 2720 13th Ave SW Seattle, WA 98134

Weather Sunny

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

Well Material PVC SS

Static Water Level (ft-btoc) 4.99 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 0.2

TOC Elevation NA Pump Intake (ft-btoc) 7 Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 12:09/12:35 Volumes Purged NA Centrifugal Submersible Other

Sample Time: Label 12:30 Replicate/ Code No. -
Start 12:27
End 12:35

Sampled by KH

Stabilized Range: <2 ft below static

per Sulfate Application Workplan Addendum 2/24/2012

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	10%		Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
						Cond. (µMhos) (mS/cm)						Color	Odor
12:12	0	250	5.02	0	6.65	0.113		0.8	3.1	23.4	-7	clear	none
12:15	3		5.04	~0.1	6.49	0.109		0.8	2.2	23.1	-5		
12:18	6		5.09	~0.2	6.44	0.103		0.8	1.9	22.9	-3		
12:21	9		5.11	~0.3	6.41	0.094		0.8	1.8	22.9	-2		
12:24	12		5.13	~0.4	6.38	0.089		0.8	1.7	22.8	0		
12:27	15		5.15	~0.5	6.37	0.089		0.9	1.7	22.7	1		

Constituents Sampled	Container	Number	Preservative
CR6			
STEX			
SRMO			
Nitrate	Poly	1	HNO ₃
Sulfate/Diss. Fe	Poly	1	H ₂ SO ₄
Sulfide	Glass	1	Zn Acetate
Total Fe	Poly	1	HNO ₃
Perforous Fe			
Methane			
	VDA	2	

Well Casing Volumes	1"	1.5"	2.5"	3.5"	6"
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" = 0.853	

Well Information

Well Location: 15-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



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 : 08/01/13

Job: WA000804.2013/KMLT-Harbor Island

Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-27				
Lab ID : ARC13080121-04A Nitrate (NO3) - N	16	0.25 mg/L	08/01/13 10:08	08/01/13 23:41
Date Sampled 07/30/13 08:00 Sulfate (SO4)	ND	0.50 mg/L	08/01/13 10:08	08/01/13 23:41
Client ID: MW-7				
Lab ID : ARC13080121-07A Nitrate (NO3) - N	ND	0.25 mg/L	08/01/13 10:08	08/02/13 00:01
Date Sampled 07/30/13 12:25 Sulfate (SO4)	4.1	0.50 mg/L	08/01/13 10:08	08/02/13 00:01
Client ID: MW-9				
Lab ID : ARC13080121-08A Nitrate (NO3) - N	ND	0.25 mg/L	08/01/13 10:08	08/02/13 00:18
Date Sampled 07/30/13 09:30 Sulfate (SO4)	72	0.50 mg/L	08/01/13 10:08	08/02/13 00:18
Client ID: TMW-1				
Lab ID : ARC13080121-15A Nitrate (NO3) - N	0.28	0.25 mg/L	08/01/13 10:08	08/02/13 00:37
Date Sampled 07/30/13 10:50 Sulfate (SO4)	1,900	500 mg/L	08/01/13 10:08	08/03/13 11:01
Client ID: TMW-2				
Lab ID : ARC13080121-16A Nitrate (NO3) - N	ND	0.25 mg/L	08/01/13 10:08	08/02/13 00:55
Date Sampled 07/30/13 10:00 Sulfate (SO4)	6.4	0.50 mg/L	08/01/13 10:08	08/02/13 00:55
Client ID: TMW-3				
Lab ID : ARC13080121-17A Nitrate (NO3) - N	ND	0.25 mg/L	08/01/13 10:08	08/02/13 01:14
Date Sampled 07/30/13 13:00 Sulfate (SO4)	3.1	0.50 mg/L	08/01/13 10:08	08/02/13 01:14
Client ID: TMW-4				
Lab ID : ARC13080121-18A Nitrate (NO3) - N	0.48	0.25 mg/L	08/01/13 10:08	08/02/13 01:32
Date Sampled 07/30/13 13:00 Sulfate (SO4)	1.4	0.50 mg/L	08/01/13 10:08	08/02/13 01:32
Client ID: TMW-5				
Lab ID : ARC13080121-19A Nitrate (NO3) - N	ND	0.25 mg/L	08/01/13 10:08	08/02/13 02:46
Date Sampled 07/30/13 10:15 Sulfate (SO4)	0.67	0.50 mg/L	08/01/13 10:08	08/02/13 02:46
Client ID: TMW-6				
Lab ID : ARC13080121-20A Nitrate (NO3) - N	ND	0.25 mg/L	08/01/13 10:08	08/02/13 03:24
Date Sampled 07/30/13 10:45 Sulfate (SO4)	5.0	0.50 mg/L	08/01/13 10:08	08/02/13 03:24
Client ID: 11				
Lab ID : ARC13080121-21A Nitrate (NO3) - N	ND	0.25 mg/L	08/01/13 10:08	08/02/13 03:42
Date Sampled 07/30/13 12:30 Sulfate (SO4)	0.88	0.50 mg/L	08/01/13 10:08	08/02/13 03:42



Alpha Analytical, Inc.

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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
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.



✓
8/14/13

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 : 08/01/13

Job: WA000804.2013/KMLT-Harbor Island

Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-27 Lab ID : ARC13080121-04A Iron (Fe) Date Sampled 07/30/13 08:00	16	0.30 mg/L	08/06/13	08/06/13
Client ID: MW-7 Lab ID : ARC13080121-07A Iron (Fe) Date Sampled 07/30/13 12:25	4.6	0.30 mg/L	08/06/13	08/06/13
Client ID: MW-9 Lab ID : ARC13080121-08A Iron (Fe) Date Sampled 07/30/13 09:30	2.0	0.30 mg/L	08/06/13	08/06/13
Client ID: TMW-1 Lab ID : ARC13080121-15A Iron (Fe) Date Sampled 07/30/13 10:50	10	0.30 mg/L	08/06/13	08/06/13
Client ID: TMW-2 Lab ID : ARC13080121-16A Iron (Fe) Date Sampled 07/30/13 10:00	29	0.30 mg/L	08/06/13	08/06/13
Client ID: TMW-3 Lab ID : ARC13080121-17A Iron (Fe) Date Sampled 07/30/13 13:00	10	0.30 mg/L	08/06/13	08/06/13
Client ID: TMW-4 Lab ID : ARC13080121-18A Iron (Fe) Date Sampled 07/30/13 13:00	24	0.30 mg/L	08/06/13	08/06/13
Client ID: TMW-5 Lab ID : ARC13080121-19A Iron (Fe) Date Sampled 07/30/13 10:15	11	0.30 mg/L	08/06/13	08/06/13
Client ID: TMW-6 Lab ID : ARC13080121-20A Iron (Fe) Date Sampled 07/30/13 10:45	13	0.30 mg/L	08/06/13	08/06/13
Client ID: 11 Lab ID : ARC13080121-21A Iron (Fe) Date Sampled 07/30/13 12:30	1.0	0.30 mg/L	08/06/13	08/06/13



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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.



8/14/13

Report Date



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Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:
Date Received : 08/01/13

Job: WA000804.2013/KMLT-Harbor Island

Dissolved Metals by ICPMS
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-27 Lab ID : ARC13080121-04A Iron (Fe), Dissolved Date Sampled 07/30/13 08:00	3.6	0.30 mg/L	08/13/13	08/13/13
Client ID: MW-7 Lab ID : ARC13080121-07A Iron (Fe), Dissolved Date Sampled 07/30/13 12:25	ND	0.30 mg/L	08/13/13	08/13/13
Client ID: MW-9 Lab ID : ARC13080121-08A Iron (Fe), Dissolved Date Sampled 07/30/13 09:30	ND	0.30 mg/L	08/13/13	08/13/13
Client ID: TMW-1 Lab ID : ARC13080121-15A Iron (Fe), Dissolved Date Sampled 07/30/13 10:50	ND	0.30 mg/L	08/13/13	08/13/13
Client ID: TMW-2 Lab ID : ARC13080121-16A Iron (Fe), Dissolved Date Sampled 07/30/13 10:00	1.2	0.30 mg/L	08/13/13	08/13/13
Client ID: TMW-3 Lab ID : ARC13080121-17A Iron (Fe), Dissolved Date Sampled 07/30/13 13:00	ND	0.30 mg/L	08/13/13	08/13/13
Client ID: TMW-4 Lab ID : ARC13080121-18A Iron (Fe), Dissolved Date Sampled 07/30/13 13:00	5.0	0.30 mg/L	08/13/13	08/13/13
Client ID: TMW-5 Lab ID : ARC13080121-19A Iron (Fe), Dissolved Date Sampled 07/30/13 10:15	ND	0.30 mg/L	08/13/13	08/13/13
Client ID: TMW-6 Lab ID : ARC13080121-20A Iron (Fe), Dissolved Date Sampled 07/30/13 10:45	2.4	0.30 mg/L	08/13/13	08/13/13
Client ID: 11 Lab ID : ARC13080121-21A Iron (Fe), Dissolved Date Sampled 07/30/13 12:30	ND	0.30 mg/L	08/13/13	08/13/13



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ND = Not Detected



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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 : 08/01/13

Job: WA000804.2013/KMLT-Harbor Island

Dissolved Gases
Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-27 Lab ID : ARC13080121-04A Methane Date Sampled 07/30/13 08:00	6.2	0.010 mg/L	08/02/13	08/02/13
Client ID: MW-7 Lab ID : ARC13080121-07A Methane Date Sampled 07/30/13 12:25	20	0.010 mg/L	08/02/13	08/06/13
Client ID: MW-9 Lab ID : ARC13080121-08A Methane Date Sampled 07/30/13 09:30	14	0.010 mg/L	08/02/13	08/02/13
Client ID: TMW-1 Lab ID : ARC13080121-15A Methane Date Sampled 07/30/13 10:50	0.075	0.010 mg/L	08/02/13	08/02/13
Client ID: TMW-2 Lab ID : ARC13080121-16A Methane Date Sampled 07/30/13 10:00	17	0.010 mg/L	08/02/13	08/02/13
Client ID: TMW-3 Lab ID : ARC13080121-17A Methane Date Sampled 07/30/13 13:00	2.6	0.010 mg/L	08/02/13	08/02/13
Client ID: TMW-4 Lab ID : ARC13080121-18A Methane Date Sampled 07/30/13 13:00	13	0.010 mg/L	08/02/13	08/02/13
Client ID: TMW-5 Lab ID : ARC13080121-19A Methane Date Sampled 07/30/13 10:15	7.6	0.010 mg/L	08/02/13	08/02/13
Client ID: TMW-6 Lab ID : ARC13080121-20A Methane Date Sampled 07/30/13 10:45	5.4	0.010 mg/L	08/02/13	08/02/13
Client ID: 11 Lab ID : ARC13080121-21A Methane Date Sampled 07/30/13 12:30	0.42	0.010 mg/L	08/02/13	08/02/13



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8/14/13

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 : 08/01/13

Job: WA000804.2013/KMLT-Harbor Island

Sulfide
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-27 Lab ID : ARC13080121-04A Sulfide Date Sampled 07/30/13 08:00	ND	0.10 mg/L	08/05/13	08/05/13
Client ID: MW-7 Lab ID : ARC13080121-07A Sulfide Date Sampled 07/30/13 12:25	ND	0.10 mg/L	08/05/13	08/05/13
Client ID: MW-9 Lab ID : ARC13080121-08A Sulfide Date Sampled 07/30/13 09:30	ND	0.10 mg/L	08/05/13	08/05/13
Client ID: TMW-1 Lab ID : ARC13080121-15A Sulfide Date Sampled 07/30/13 10:50	ND	0.10 mg/L	08/05/13	08/05/13
Client ID: TMW-2 Lab ID : ARC13080121-16A Sulfide Date Sampled 07/30/13 10:00	ND	0.10 mg/L	08/05/13	08/05/13
Client ID: TMW-3 Lab ID : ARC13080121-17A Sulfide Date Sampled 07/30/13 13:00	ND	0.10 mg/L	08/05/13	08/05/13
Client ID: TMW-4 Lab ID : ARC13080121-18A Sulfide Date Sampled 07/30/13 13:00	0.11	0.10 mg/L	08/05/13	08/05/13
Client ID: TMW-5 Lab ID : ARC13080121-19A Sulfide Date Sampled 07/30/13 10:15	0.25	0.10 mg/L	08/05/13	08/05/13
Client ID: TMW-6 Lab ID : ARC13080121-20A Sulfide Date Sampled 07/30/13 10:45	0.14	0.10 mg/L	08/05/13	08/05/13
Client ID: 11 Lab ID : ARC13080121-21A Sulfide Date Sampled 07/30/13 12:30	ND	0.10 mg/L	08/05/13	08/05/13



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ND = Not Detected



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8/14/13

Report Date



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ANALYTICAL REPORT

Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101
Job: WA000804.2013/KMLT-Harbor Island

Attn: Jonathan Flomerfelt
Phone: (206) 726-4712
Fax:

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:	A-5				
Lab ID:	ARC13080121-01A	TPH-P (GRO)	0.54	0.25 mg/L	08/06/13
Date Sampled	07/29/13 17:15	Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	08/06/13
		Surr: Toluene-d8	105	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	08/06/13
Client ID:	A-21				
Lab ID:	ARC13080121-02A	TPH-P (GRO)	ND	0.25 mg/L	08/06/13
Date Sampled	07/29/13 17:00	Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	08/06/13
		Surr: Toluene-d8	104	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	08/06/13
Client ID:	A-23R				
Lab ID:	ARC13080121-03A	TPH-P (GRO)	ND	0.25 mg/L	08/06/13
Date Sampled	07/29/13 14:10	Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	114	(70-130) %REC	08/06/13
Client ID:	A-27				
Lab ID:	ARC13080121-04A	TPH-P (GRO)	1.8	0.25 mg/L	08/06/13
Date Sampled	07/30/13 08:00	Surr: 1,2-Dichloroethane-d4	79	(70-130) %REC	08/06/13
		Surr: Toluene-d8	105	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	08/06/13
Client ID:	A-28R				
Lab ID:	ARC13080121-05A	TPH-P (GRO)	2.5	0.25 mg/L	08/06/13
Date Sampled	07/29/13 15:40	Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	08/06/13
		Surr: Toluene-d8	101	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	08/06/13
Client ID:	MW-6				
Lab ID:	ARC13080121-06A	TPH-P (GRO)	0.30	0.25 mg/L	08/06/13
Date Sampled	07/29/13 15:10	Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	08/06/13
Client ID:	MW-7				
Lab ID:	ARC13080121-07A	TPH-P (GRO)	7.2	2.0 mg/L	08/06/13
Date Sampled	07/30/13 12:25	Surr: 1,2-Dichloroethane-d4	79	(70-130) %REC	08/06/13
		Surr: Toluene-d8	109	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	08/06/13
Client ID:	MW-9				
Lab ID:	ARC13080121-08A	TPH-P (GRO)	0.27	0.25 mg/L	08/06/13
Date Sampled	07/30/13 09:30	Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	08/06/13
		Surr: Toluene-d8	102	(70-130) %REC	08/06/13
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	08/06/13



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Client ID :	MW-14					
Lab ID :	ARC13080121-09A	TPH-P (GRO)	ND	0.25 mg/L	08/06/13	08/06/13
Date Sampled	07/30/13 08:50	Surr: 1,2-Dichloroethane-d4	85	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	108	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	08/06/13	08/06/13
Client ID :	MW-18					
Lab ID :	ARC13080121-10A	TPH-P (GRO)	ND	0.25 mg/L	08/06/13	08/06/13
Date Sampled	07/29/13 14:40	Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	108	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	08/06/13	08/06/13
Client ID :	MW-19					
Lab ID :	ARC13080121-11A	TPH-P (GRO)	4.4	0.30 mg/L	08/06/13	08/06/13
Date Sampled	07/30/13 09:25	Surr: 1,2-Dichloroethane-d4	78	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	08/06/13	08/06/13
Client ID :	MW-21					
Lab ID :	ARC13080121-12A	TPH-E (DRO)	2.9	0.25 mg/L	08/01/13	08/02/13
Date Sampled	07/30/13 08:40	TPH-E (ORO)	ND	0.50 mg/L	08/01/13	08/02/13
		Surr: Nonane	98	(53-145) %REC	08/01/13	08/02/13
		TPH-P (GRO)	0.32	0.25 mg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	82	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	99	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	08/06/13	08/06/13
Client ID :	MW-23					
Lab ID :	ARC13080121-13A	TPH-P (GRO)	1.7	0.25 mg/L	08/06/13	08/06/13
Date Sampled	07/29/13 16:40	Surr: 1,2-Dichloroethane-d4	80	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	08/06/13	08/06/13
Client ID :	MW-24					
Lab ID :	ARC13080121-14A	TPH-P (GRO)	27	4.0 mg/L	08/06/13	08/06/13
Date Sampled	07/29/13 16:10	Surr: 1,2-Dichloroethane-d4	77	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	109	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	08/06/13	08/06/13
Client ID :	TMW-1					
Lab ID :	ARC13080121-15A	TPH-P (GRO)	ND	0.25 mg/L	08/11/13	08/11/13
Date Sampled	07/30/13 10:50	Surr: 1,2-Dichloroethane-d4	82	(70-130) %REC	08/11/13	08/11/13
		Surr: Toluene-d8	111	(70-130) %REC	08/11/13	08/11/13
		Surr: 4-Bromofluorobenzene	110	(70-130) %REC	08/11/13	08/11/13
Client ID :	TMW-2					
Lab ID :	ARC13080121-16A	TPH-P (GRO)	0.26	0.25 mg/L	08/11/13	08/11/13
Date Sampled	07/30/13 10:00	Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	08/11/13	08/11/13
		Surr: Toluene-d8	105	(70-130) %REC	08/11/13	08/11/13
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	08/11/13	08/11/13
Client ID :	TMW-3					
Lab ID :	ARC13080121-17A	TPH-P (GRO)	0.98	0.25 mg/L	08/11/13	08/11/13
Date Sampled	07/30/13 13:00	Surr: 1,2-Dichloroethane-d4	86	(70-130) %REC	08/11/13	08/11/13
		Surr: Toluene-d8	101	(70-130) %REC	08/11/13	08/11/13
		Surr: 4-Bromofluorobenzene	107	(70-130) %REC	08/11/13	08/11/13
Client ID :	TMW-4					
Lab ID :	ARC13080121-18A	TPH-P (GRO)	5.1	0.50 mg/L	08/11/13	08/11/13
Date Sampled	07/30/13 13:00	Surr: 1,2-Dichloroethane-d4	83	(70-130) %REC	08/11/13	08/11/13
		Surr: Toluene-d8	106	(70-130) %REC	08/11/13	08/11/13
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	08/11/13	08/11/13



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Client ID : **TMW-5**

Lab ID :	ARC13080121-19A	TPH-P (GRO)	4.3	0.25 mg/L	08/11/13	08/11/13
Date Sampled	07/30/13 10:15	Surr: 1,2-Dichloroethane-d4	81	(70-130) %REC	08/11/13	08/11/13
		Surr: Toluene-d8	107	(70-130) %REC	08/11/13	08/11/13
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	08/11/13	08/11/13

Client ID : **TMW-6**

Lab ID :	ARC13080121-20A	TPH-P (GRO)	7.8	0.50 mg/L	08/11/13	08/11/13
Date Sampled	07/30/13 10:45	Surr: 1,2-Dichloroethane-d4	80	(70-130) %REC	08/11/13	08/11/13
		Surr: Toluene-d8	105	(70-130) %REC	08/11/13	08/11/13
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	08/11/13	08/11/13

Client ID : **11**

Lab ID :	ARC13080121-21A	TPH-P (GRO)	ND	0.25 mg/L	08/11/13	08/11/13
Date Sampled	07/30/13 12:30	Surr: 1,2-Dichloroethane-d4	80	(70-130) %REC	08/11/13	08/11/13
		Surr: Toluene-d8	111	(70-130) %REC	08/11/13	08/11/13
		Surr: 4-Bromofluorobenzene	96	(70-130) %REC	08/11/13	08/11/13

Client ID : **BD-1**

Lab ID :	ARC13080121-22A	TPH-P (GRO)	1.5	0.25 mg/L	08/06/13	08/06/13
Date Sampled	07/30/13 00:00	Surr: 1,2-Dichloroethane-d4	75	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	108	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	08/06/13	08/06/13

Client ID : **TRIP BLANK**

Lab ID :	ARC13080121-23A	TPH-P (GRO)	ND	0.25 mg/L	08/06/13	08/06/13
Date Sampled	07/30/13 00:00	Surr: 1,2-Dichloroethane-d4	86	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	115	(70-130) %REC	08/06/13	08/06/13

Client ID : **DRUM 1**

Lab ID :	ARC13080121-24A	TPH-P (GRO)	0.45	0.25 mg/L	08/06/13	08/06/13
Date Sampled	07/30/13 13:30	Surr: 1,2-Dichloroethane-d4	78	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	107	(70-130) %REC	08/06/13	08/06/13

Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
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
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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.



Pg
8/14/13
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 : 08/01/13

Job: WA000804.2013/KMLT-Harbor Island

Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	A-5					
Lab ID :	ARC13080121-01A	Benzene	33	0.50 µg/L	08/06/13	08/06/13
Date Sampled	07/29/13 17:15	Toluene	2.2	0.50 µg/L	08/06/13	08/06/13
		Ethylbenzene	ND	0.50 µg/L	08/06/13	08/06/13
		Xylenes, Total	2.2	0.50 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	105	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	08/06/13	08/06/13
Client ID :	A-21					
Lab ID :	ARC13080121-02A	Benzene	ND	0.50 µg/L	08/06/13	08/06/13
Date Sampled	07/29/13 17:00	Toluene	ND	0.50 µg/L	08/06/13	08/06/13
		Ethylbenzene	ND	0.50 µg/L	08/06/13	08/06/13
		Xylenes, Total	ND	0.50 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	104	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	08/06/13	08/06/13
Client ID :	A-23R					
Lab ID :	ARC13080121-03A	Benzene	ND	0.50 µg/L	08/06/13	08/06/13
Date Sampled	07/29/13 14:10	Toluene	ND	0.50 µg/L	08/06/13	08/06/13
		Ethylbenzene	ND	0.50 µg/L	08/06/13	08/06/13
		Xylenes, Total	ND	0.50 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	114	(70-130) %REC	08/06/13	08/06/13
Client ID :	A-27					
Lab ID :	ARC13080121-04A	Benzene	73	1.0 µg/L	08/06/13	08/06/13
Date Sampled	07/30/13 08:00	Toluene	3.9	1.0 µg/L	08/06/13	08/06/13
		Ethylbenzene	51	1.0 µg/L	08/06/13	08/06/13
		Xylenes, Total	17	1.0 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	79	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	105	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	08/06/13	08/06/13
Client ID :	A-28R					
Lab ID :	ARC13080121-05A	Benzene	43	0.50 µg/L	08/06/13	08/06/13
Date Sampled	07/29/13 15:40	Toluene	1.8	0.50 µg/L	08/06/13	08/06/13
		Ethylbenzene	19	0.50 µg/L	08/06/13	08/06/13
		Xylenes, Total	3.4	0.50 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	87	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	101	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	08/06/13	08/06/13



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Client ID :	MW-6				
Lab ID :	ARC13080121-06A	Benzene	ND	0.50 µg/L	08/06/13 08/06/13
Date Sampled	07/29/13 15:10	Toluene	ND	0.50 µg/L	08/06/13 08/06/13
		Ethylbenzene	ND	0.50 µg/L	08/06/13 08/06/13
		Xylenes, Total	0.59	0.50 µg/L	08/06/13 08/06/13
		Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	08/06/13 08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13 08/06/13
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	08/06/13 08/06/13
Client ID :	MW-7				
Lab ID :	ARC13080121-07A	Benzene	16	10 µg/L	08/06/13 08/06/13
Date Sampled	07/30/13 12:25	Toluene	110	10 µg/L	08/06/13 08/06/13
		Ethylbenzene	290	10 µg/L	08/06/13 08/06/13
		Xylenes, Total	1,600	10 µg/L	08/06/13 08/06/13
		Surr: 1,2-Dichloroethane-d4	79	(70-130) %REC	08/06/13 08/06/13
		Surr: Toluene-d8	109	(70-130) %REC	08/06/13 08/06/13
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	08/06/13 08/06/13
Client ID :	MW-9				
Lab ID :	ARC13080121-08A	Benzene	1.7	0.50 µg/L	08/06/13 08/06/13
Date Sampled	07/30/13 09:30	Toluene	ND	0.50 µg/L	08/06/13 08/06/13
		Ethylbenzene	0.71	0.50 µg/L	08/06/13 08/06/13
		Xylenes, Total	6.0	0.50 µg/L	08/06/13 08/06/13
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	08/06/13 08/06/13
		Surr: Toluene-d8	102	(70-130) %REC	08/06/13 08/06/13
		Surr: 4-Bromofluorobenzene	106	(70-130) %REC	08/06/13 08/06/13
Client ID :	MW-14				
Lab ID :	ARC13080121-09A	Benzene	ND	0.50 µg/L	08/06/13 08/06/13
Date Sampled	07/30/13 08:50	Toluene	0.58	0.50 µg/L	08/06/13 08/06/13
		Ethylbenzene	11	0.50 µg/L	08/06/13 08/06/13
		Xylenes, Total	9.2	0.50 µg/L	08/06/13 08/06/13
		Surr: 1,2-Dichloroethane-d4	85	(70-130) %REC	08/06/13 08/06/13
		Surr: Toluene-d8	108	(70-130) %REC	08/06/13 08/06/13
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	08/06/13 08/06/13
Client ID :	MW-18				
Lab ID :	ARC13080121-10A	Benzene	ND	0.50 µg/L	08/06/13 08/06/13
Date Sampled	07/29/13 14:40	Toluene	ND	0.50 µg/L	08/06/13 08/06/13
		Ethylbenzene	ND	0.50 µg/L	08/06/13 08/06/13
		Xylenes, Total	ND	0.50 µg/L	08/06/13 08/06/13
		Surr: 1,2-Dichloroethane-d4	88	(70-130) %REC	08/06/13 08/06/13
		Surr: Toluene-d8	108	(70-130) %REC	08/06/13 08/06/13
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	08/06/13 08/06/13
Client ID :	MW-19				
Lab ID :	ARC13080121-11A	Benzene	8.6	1.5 µg/L	08/06/13 08/06/13
Date Sampled	07/30/13 09:25	Toluene	5.1	1.5 µg/L	08/06/13 08/06/13
		Ethylbenzene	160	1.5 µg/L	08/06/13 08/06/13
		Xylenes, Total	13	1.5 µg/L	08/06/13 08/06/13
		Surr: 1,2-Dichloroethane-d4	78	(70-130) %REC	08/06/13 08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13 08/06/13
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	08/06/13 08/06/13



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Client ID :	MW-21					
Lab ID :	ARC13080121-12A	Benzene	ND	0.50 µg/L	08/06/13	08/06/13
Date Sampled	07/30/13 08:40	Toluene	ND	0.50 µg/L	08/06/13	08/06/13
		Ethylbenzene	ND	0.50 µg/L	08/06/13	08/06/13
		Xylenes, Total	ND	0.50 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	82	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	99	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	08/06/13	08/06/13
Client ID :	MW-23					
Lab ID :	ARC13080121-13A	Benzene	9.7	1.0 µg/L	08/06/13	08/06/13
Date Sampled	07/29/13 16:40	Toluene	ND	1.0 µg/L	08/06/13	08/06/13
		Ethylbenzene	25	1.0 µg/L	08/06/13	08/06/13
		Xylenes, Total	1.1	1.0 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	80	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	08/06/13	08/06/13
Client ID :	MW-24					
Lab ID :	ARC13080121-14A	Benzene	1,100	20 µg/L	08/06/13	08/06/13
Date Sampled	07/29/13 16:10	Toluene	59	20 µg/L	08/06/13	08/06/13
		Ethylbenzene	2,100	20 µg/L	08/06/13	08/06/13
		Xylenes, Total	4,700	20 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	77	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	109	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	08/06/13	08/06/13
Client ID :	BD-1					
Lab ID :	ARC13080121-22A	Benzene	58	1.0 µg/L	08/06/13	08/06/13
Date Sampled	07/30/13 00:00	Toluene	3.3	1.0 µg/L	08/06/13	08/06/13
		Ethylbenzene	40	1.0 µg/L	08/06/13	08/06/13
		Xylenes, Total	15	1.0 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	75	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	108	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	08/06/13	08/06/13
Client ID :	TRIP BLANK					
Lab ID :	ARC13080121-23A	Benzene	ND	0.50 µg/L	08/06/13	08/06/13
Date Sampled	07/30/13 00:00	Toluene	ND	0.50 µg/L	08/06/13	08/06/13
		Ethylbenzene	ND	0.50 µg/L	08/06/13	08/06/13
		Xylenes, Total	ND	0.50 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	86	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	115	(70-130) %REC	08/06/13	08/06/13
Client ID :	DRUM 1					
Lab ID :	ARC13080121-24A	Benzene	15	1.0 µg/L	08/06/13	08/06/13
Date Sampled	07/30/13 13:30	Toluene	2.9	1.0 µg/L	08/06/13	08/06/13
		Ethylbenzene	24	1.0 µg/L	08/06/13	08/06/13
		Xylenes, Total	61	1.0 µg/L	08/06/13	08/06/13
		Surr: 1,2-Dichloroethane-d4	78	(70-130) %REC	08/06/13	08/06/13
		Surr: Toluene-d8	106	(70-130) %REC	08/06/13	08/06/13
		Surr: 4-Bromofluorobenzene	107	(70-130) %REC	08/06/13	08/06/13



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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.



[Signature]

8/14/13
Report Date



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VOC Sample Preservation Report

Work Order: ARC13080121

Job: WA000804.2013/KMLT-Harbor Island

Alpha's Sample ID	Client's Sample ID	Matrix	pH
13080121-01A	A-5	Aqueous	2
13080121-02A	A-21	Aqueous	2
13080121-03A	A-23R	Aqueous	2
13080121-04A	A-27	Aqueous	2
13080121-05A	A-28R	Aqueous	2
13080121-06A	MW-6	Aqueous	2
13080121-07A	MW-7	Aqueous	2
13080121-08A	MW-9	Aqueous	2
13080121-09A	MW-14	Aqueous	2
13080121-10A	MW-18	Aqueous	2
13080121-11A	MW-19	Aqueous	2
13080121-12A	MW-21	Aqueous	2
13080121-13A	MW-23	Aqueous	2
13080121-14A	MW-24	Aqueous	2
13080121-22A	BD-1	Aqueous	2
13080121-23A	TRIP BLANK	Aqueous	2
13080121-24A	DRUM 1	Aqueous	2

8/14/13

Report Date

Page 1 of 1



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Date:
07-Aug-13

QC Summary Report

Work Order:
13080121

Method Blank

Method Blank		Type: MBLK	Test Code: EPA Method 300.0							
File ID: 58			Batch ID: 31371				Analysis Date: 08/01/2013 20:55			
Sample ID: MB-31371	Units : mg/L		Run ID: IC_1_130801B				Prep Date: 08/01/2013 10:08			
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: 59			Batch ID: 31371				Analysis Date: 08/01/2013 21:13			
Sample ID: LFB-31371	Units : mg/L		Run ID: IC_1_130801B				Prep Date: 08/01/2013 10:08			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	5.44	0.25	5		109	90	110			
Sulfate (SO4)	94.3	0.5	100		94	90	110			

Sample Matrix Spike

Sample Matrix Spike		Type: LFM	Test Code: EPA Method 300.0							
File ID: 62			Batch ID: 31371				Analysis Date: 08/01/2013 22:09			
Sample ID: 13080120-23ALFM	Units : mg/L		Run ID: IC_1_130801B				Prep Date: 08/01/2013 10:08			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	28.4	0.63	25	1.94	106	80	120			
Sulfate (SO4)	725	1.3	500	341.7	77	80	120			M2

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type: LFMD	Test Code: EPA Method 300.0							
File ID: 63			Batch ID: 31371				Analysis Date: 08/01/2013 22:27			
Sample ID: C13080120-23ALFMD	Units : mg/L		Run ID: IC_1_130801B				Prep Date: 08/01/2013 10:08			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	28.4	0.63	25	1.94	106	80	120	28.37	0.2(15)	
Sulfate (SO4)	721	1.3	500	341.7	76	80	120	724.8	0.5(15)	M2

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.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:
14-Aug-13

QC Summary Report

Work Order:
13080121

Method Blank

File ID: 014_	Type MBLK	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 31406	Analysis Date: 08/06/2013 15:20						
Sample ID: MB-31406	Units : mg/L	Run ID: ICP/MS_130806A	Prep Date: 08/06/2013 08:37							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe)	ND	0.3								

Laboratory Control Spike

File ID: 016_	Type LCS	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 31406	Analysis Date: 08/06/2013 15:26						
Sample ID: LCS-31406	Units : mg/L	Run ID: ICP/MS_130806A	Prep Date: 08/06/2013 08:37							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe)	53.4	0.3	50		107	80	120			

Sample Matrix Spike

File ID: 018_	Type MS	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 31406	Analysis Date: 08/06/2013 15:32						
Sample ID: 13080121-04AMS	Units : mg/L	Run ID: ICP/MS_130806A	Prep Date: 08/06/2013 08:37							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe)	68.7	0.3	50	15.74	106	75	125			

Sample Matrix Spike Duplicate

File ID: 019_	Type MSD	Test Code: EPA Method SW6020 / SW6020A	Batch ID: 31406	Analysis Date: 08/06/2013 15:35						
Sample ID: 13080121-04AMSD	Units : mg/L	Run ID: ICP/MS_130806A	Prep Date: 08/06/2013 08:37							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe)	70.2	0.3	50	15.74	109	75	125	68.67	2.2(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:

14-Aug-13

QC Summary Report

Work Order:

13080121

Method Blank

File ID: 045_	Type MBLK	Test Code: EPA Method 200.8	Batch ID: 31468	Analysis Date: 08/13/2013 18:12						
Sample ID: MB-31468	Units : mg/L	Run ID: ICP/MS_130813C	Prep Date: 08/13/2013 15:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe), Dissolved	ND	0.3								

Laboratory Control Spike

File ID: 047_	Type LCS	Test Code: EPA Method 200.8	Batch ID: 31468	Analysis Date: 08/13/2013 18:18						
Sample ID: LCS-31468	Units : mg/L	Run ID: ICP/MS_130813C	Prep Date: 08/13/2013 15:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe), Dissolved	5.45	0.3	5		109	80	120			

Sample Matrix Spike

File ID: 049_	Type MS	Test Code: EPA Method 200.8	Batch ID: 31468	Analysis Date: 08/13/2013 18:24						
Sample ID: 13080647-01AMS	Units : mg/L	Run ID: ICP/MS_130813C	Prep Date: 08/13/2013 15:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe), Dissolved	5.72	0.3	5	0	114	75	125			

Sample Matrix Spike Duplicate

File ID: 050_	Type MSD	Test Code: EPA Method 200.8	Batch ID: 31468	Analysis Date: 08/13/2013 18:27						
Sample ID: 13080647-01AMSD	Units : mg/L	Run ID: ICP/MS_130813C	Prep Date: 08/13/2013 15:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron (Fe), Dissolved	5.85	0.3	5	0	117	75	125	5.724	2.2(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.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
09-Aug-13

QC Summary Report

Work Order:
13080121

Method Blank

Method Blank		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		MBLK	Batch ID: 31387			Analysis Date: 08/02/2013 13:05					
Sample ID:	MBLK-31387	Units : mg/L	Run ID: FID_6_130802A			Prep Date: 08/02/2013 11:54					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	ND	0.01									

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		LCS	Batch ID: 31387			Analysis Date: 08/02/2013 13:24					
Sample ID:	LCS-31387	Units : mg/L	Run ID: FID_6_130802A			Prep Date: 08/02/2013 11:54					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	0.461	0.01	0.452		102	54	138				

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		MS	Batch ID: 31387			Analysis Date: 08/02/2013 14:04					
Sample ID:	13073120-01AMS	Units : mg/L	Run ID: FID_6_130802A			Prep Date: 08/02/2013 11:54					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	1.79	0.01	1.81		0	99	43	138			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: Modified Method RSK-175 GC/FID								
File ID:		MSD	Batch ID: 31387			Analysis Date: 08/02/2013 14:24					
Sample ID:	13073120-01AMSD	Units : mg/L	Run ID: FID_6_130802A			Prep Date: 08/02/2013 11:54					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Methane	1.86	0.01	1.81		0	103	43	138	1.794	3.5(27)	

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:
14-Aug-13

QC Summary Report

Work Order:
13080121

Method Blank

Method Blank		Type MBLK	Test Code: SM4500-S D							
File ID:			Batch ID: W0805SU				Analysis Date: 08/05/2013 00:00			
Sample ID:	MBLK-W0805SU	Units : mg/L	Run ID: WETLAB_130805B				Prep Date: 08/05/2013 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: W0805SU				Analysis Date: 08/05/2013 00:00			
Sample ID:	LCS-W0805SU	Units : mg/L	Run ID: WETLAB_130805B				Prep Date: 08/05/2013 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.858	0.1	1		86	60	140			

Sample Matrix Spike

Sample Matrix Spike		Type MS	Test Code: SM4500-S D							
File ID:			Batch ID: W0805SU				Analysis Date: 08/05/2013 00:00			
Sample ID:	13080121-04AMS	Units : mg/L	Run ID: WETLAB_130805B				Prep Date: 08/05/2013 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.82	0.1	1	0	82	51	144			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type MSD	Test Code: SM4500-S D							
File ID:			Batch ID: W0805SU				Analysis Date: 08/05/2013 00:00			
Sample ID:	13080121-04AMSD	Units : mg/L	Run ID: WETLAB_130805B				Prep Date: 08/05/2013 00:00			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.847	0.1	1	0	85	51	144	0.82	3.2(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.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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Date:

14-Aug-13

QC Summary Report

Work Order:

13080121

Method Blank

File ID: 2A07311356.D

Sample ID: MBLK-31382

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	0.137		0.15		91	53	145			

Laboratory Control Spike

File ID: 2A07311357.D

Sample ID: LCS-31382

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.03	0.05	2.5		81	70	130			
Surr: Nonane	0.133		0.15		89	53	145			

Sample Matrix Spike

File ID: 2A07311366.D

Sample ID: 13080120-25AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	1.36	0.05	2.5	0.161	48	51	151			M2
Surr: Nonane	0.078		0.15		52	53	145			S54

Sample Matrix Spike Duplicate

File ID: 2A07311367.D

Sample ID: 13080120-25AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	1.82	0.05	2.5	0.161	66	51	151	1.358	28.9(40)	
Surr: Nonane	0.101		0.15		67	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.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

S54 = Surrogate recovery was below laboratory acceptance limits.



Alpha Analytical, Inc.

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Date:
14-Aug-13

QC Summary Report

Work Order:
13080121

Method Blank

File ID: 13080538.D

Sample ID: MBLK MS09W0805D

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	0.00884		0.01		88	70	130			
Surr: Toluene-d8	0.0106		0.01		106	70	130			
Surr: 4-Bromofluorobenzene	0.0109		0.01		109	70	130			

Laboratory Control Spike

File ID: 13080536.D

Sample ID: GLCS MS09W0805D

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.396	0.05	0.4		99	70	130			
Surr: 1,2-Dichloroethane-d4	0.00836		0.01		84	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.0109		0.01		109	70	130			

Sample Matrix Spike

File ID: 13080548.D

Sample ID: 13080210-01AGS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.98	0.25	2	0	99	54	143			
Surr: 1,2-Dichloroethane-d4	0.0452		0.05		90	70	130			
Surr: Toluene-d8	0.0506		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0549		0.05		110	70	130			

Sample Matrix Spike Duplicate

File ID: 13080549.D

Sample ID: 13080210-01AGSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.15	0.25	2	0	107	54	143	1.98	8.2(23)	
Surr: 1,2-Dichloroethane-d4	0.0436		0.05		87	70	130			
Surr: Toluene-d8	0.0507		0.05		101	70	130			
Surr: 4-Bromofluorobenzene	0.0533		0.05		107	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.

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Date:
14-Aug-13

QC Summary Report

Work Order:
13080121

Method Blank

File ID: 13081109.D

Sample ID: MBLK MS09W0811B

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	0.00802		0.01		80	70	130			
Surr: Toluene-d8	0.0108		0.01		108	70	130			
Surr: 4-Bromofluorobenzene	0.0116		0.01		116	70	130			

Laboratory Control Spike

File ID: 13081107.D

Sample ID: GLCS MS09W0811B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.39	0.05	0.4		97	70	130			
Surr: 1,2-Dichloroethane-d4	0.00885		0.01		89	70	130			
Surr: Toluene-d8	0.0105		0.01		105	70	130			
Surr: 4-Bromofluorobenzene	0.0111		0.01		111	70	130			

Sample Matrix Spike

File ID: 13081120.D

Sample ID: 13080951-01AGS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.24	0.25	2	0	112	54	143			
Surr: 1,2-Dichloroethane-d4	0.0431		0.05		86	70	130			
Surr: Toluene-d8	0.0525		0.05		105	70	130			
Surr: 4-Bromofluorobenzene	0.0557		0.05		111	70	130			

Sample Matrix Spike Duplicate

File ID: 13081121.D

Sample ID: 13080951-01AGSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.29	0.25	2	0	115	54	143	2.236	2.4(23)	
Surr: 1,2-Dichloroethane-d4	0.042		0.05		84	70	130			
Surr: Toluene-d8	0.0515		0.05		103	70	130			
Surr: 4-Bromofluorobenzene	0.0535		0.05		107	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.

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Date:
14-Aug-13

QC Summary Report

Work Order:
13080121

Method Blank

File ID: 13080538.D

Sample ID: MBLK MS09W0805C

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	8.84		10		88	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	10.9		10		109	70	130			

Laboratory Control Spike

File ID: 13080534.D

Sample ID: LCS MS09W0805C

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.68	0.5	10		97	70	130			
Toluene	10.3	0.5	10		103	80	120			
Ethylbenzene	11.5	0.5	10		115	80	120			
Xylenes, Total	21.3	0.5	20		107	70	130			
Surr: 1,2-Dichloroethane-d4	9.54		10		95	70	130			
Surr: Toluene-d8	9.82		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.64		10		96	70	130			

Sample Matrix Spike

File ID: 13080546.D

Sample ID: 13080210-01AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	55.2	1.3	50	0	110	67	134			
Toluene	57.2	1.3	50	0	114	38	130			
Ethylbenzene	64.2	1.3	50	0	128	70	130			
Xylenes, Total	116	1.3	100	0	116	70	130			
Surr: 1,2-Dichloroethane-d4	49.2		50		98	70	130			
Surr: Toluene-d8	48.3		50		97	70	130			
Surr: 4-Bromofluorobenzene	51.3		50		103	70	130			

Sample Matrix Spike Duplicate

File ID: 13080547.D

Sample ID: 13080210-01AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	54.3	1.3	50	0	109	67	134	55.17	1.6(21)	
Toluene	57.8	1.3	50	0	116	38	130	57.2	1.1(20)	
Ethylbenzene	65.3	1.3	50	0	131	70	130	64.15	1.7(20)	M1
Xylenes, Total	121	1.3	100	0	121	70	130	116.4	3.8(22)	
Surr: 1,2-Dichloroethane-d4	47.2		50		94	70	130			
Surr: Toluene-d8	49.1		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.5		50		99	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.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED

Page: 1 of 3

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW13080121

Report Due By : 5:00 PM On : 15-Aug-13

Amendment due 8-14-13

EDD Required : No

Sampled by : Kyle Haslan, Rory Henneck

Cooler Temp Samples Received Date Printed

3 °C 01-Aug-13 07-Aug-13

Client: Arcadis-US
1100 Olive Way, Suite 800
Seattle, WA 98101

Report Attention: Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com

Client's COC #: 16049, 16050, 11012 Job : WAA000804.2013/KMLT-Harbor Island
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	METALS_A	METALS_D	METHANE_W	SULFIDE_W	TPHE_W	TPHP_W		VOC_W					
ARC13080121-01A	A-5	07/29/13 17:15	3	0	10															
ARC13080121-02A	A-21	07/29/13 17:00	3	0	10															
ARC13080121-03A	A-23R	07/29/13 14:10	3	0	10															
ARC13080121-04A	A-27	07/30/13 08:00	9	0	10															
ARC13080121-05A	A-28R	07/29/13 15:40	3	0	10															
ARC13080121-06A	MW-6	07/29/13 15:10	3	0	10															
ARC13080121-07A	MW-7	07/30/13 12:25	9	0	10															
ARC13080121-08A	MW-9	07/30/13 09:30	9	0	10															
ARC13080121-09A	MW-14	07/30/13 08:50	3	0	10															
ARC13080121-10A	MW-18	07/29/13 14:40	3	0	10															

Comments: Security seals intact. Frozen ice. Total Xylenes. Please filter dissolved Fe. Some samples received or logged in outside the 48 Hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. : Amended 8/7/13 14:20 to add NWTTH/Gx to 15A through 21A on a 5 day TAT, per Reyna's phone conversation with Kyle. Limited sample volume. Due 8/14/13, KM

Logged in by: Kellyman Signature Kellyman Print Name Kellyman Company Alpha Analytical, Inc. Date/Time 8/7/13 1420

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

AMENDED

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WA

WorkOrder : **ARCW13080121**

Report Due By : **5:00 PM On : 15-Aug-13**

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention: **Jonathan Flomerfelt** (206) 726-4712 x
 jonathan.flomerfelt@arcadis-us.com

EDD Required : No

Sampled by : Kyle Haslan, Rory Henneck

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
 Client's COC # : 16049, 16050, 11012 Job : WA000804.2013/KMLT-Heardor Island
 PO : Cooler Temp 3 °C Samples Received 01-Aug-13 Date Printed 07-Aug-13

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks		
				300_0_W	METALS_A	METALS_D	METHANE_W	SULFIDE_W	TPHE_W		TPHP_W	VOC_W
ARC13080121-11A	MW-19	07/30/13 09:25	3 0 10							NWTPH-Gx	BTXE_C	
ARC13080121-12A	MW-21	07/30/13 08:40	6 0 10							NWTPH-Dx	NWTPH-Gx	BTXE_C
ARC13080121-13A	MW-23	07/29/13 16:40	3 0 10							NWTPH-Gx		BTXE_C
ARC13080121-14A	MW-24	07/29/13 16:10	3 0 10							NWTPH-Gx		BTXE_C
ARC13080121-15A	TMW-1	07/30/13 10:50	6 0 10							NWTPH-Gx		
ARC13080121-16A	TMW-2	07/30/13 10:00	6 0 10							NWTPH-Gx		
ARC13080121-17A	TMW-3	07/30/13 13:00	6 0 10							NWTPH-Gx		
ARC13080121-18A	TMW-4	07/30/13 13:00	6 0 10							NWTPH-Gx		
ARC13080121-19A	TMW-5	07/30/13 10:15	6 0 10							NWTPH-Gx		
ARC13080121-20A	TMW-6	07/30/13 10:45	6 0 10							NWTPH-Gx		

Comments: Security seals intact. Frozen ice. Total Xylenes. Please filter dissolved Fe. Some samples received or logged in outside the 48 Hr holding time for NO3 for an unpressurized bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Amended 8/7/13 14:20 to add NWTPH/Gx to 15A through 21A on a 5 day TAT, per Reyna's phone conversation with Kyle. Limited sample volume. Due 8/14/13 KM

Signature: K. Murray Print Name: K. Murray Company: Alpha Analytical, Inc. Date/Time: 8/11/13 1420

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: 3 of 3

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ARCW13080121

Report Due By : 5:00 PM On : 15-Aug-13

Client:
 Arcadis-US
 1100 Olive Way, Suite 800

Report Attention **Phone Number** **Email Address**
 Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com

EDD Required : No

Sampled by : Kyle Haslan, Rory Henneck

PO : **Client's COC # :** 16049, 16050, 11012 **Job :** WAA000804.2013/KMLT-Harbor Island **QC Level :** S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp Samples Received Date Printed
 3 °C 01-Aug-13 07-Aug-13

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles	Alpha Sub	TAT	Requested Tests							Sample Remarks
						300_0_W	METALS_A	METALS_D	METHANE_W	SULFIDE_W	TPHE_W	TPHP_W	
ARC13080121-21A	11	AQ 07/30/13 12:30	6	0	10	NO3, SO4	Fe	Fe	CH4	Sulfide	NWTPH-GX		
ARC13080121-22A	BD-1	AQ 07/30/13 00:00	3	0	10						NWTPH-GX	BIXE_C	
ARC13080121-23A	TRIP BLANK	AQ 07/30/13 00:00	2	0	10						NWTPH-GX	BIXE_C	Reno Trip Blanks 6/26/13
ARC13080121-24A	DRUM 1	AQ 07/30/13 13:30	3	0	10						NWTPH-GX	BIXE_C	

Comments: Security seals intact. Frozen ice. Total Xylenes. Please filter dissolved Fe. Some samples received or logged in outside the 48 Hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis. Amended 8/7/13 14:20 to add NWTPH/GX to 15A through 21A on a 5 day TAT, per Reyna's phone conversation with Kyle. Limited sample volume. Due 8/14/13 KM

Logged in by: K Murray Signature: [Signature] Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 8/11/13 1420

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 : ARCW13080121

Report Due By : 5:00 PM On : 15-Aug-13

Client: Arcadis-US
 1100 Olive Way, Suite 800
 Seattle, WA 98101

Report Attention Jonathan Flomerfelt (206) 726-4712 x jonathan.flomerfelt@arcadis-us.com
Phone Number (206) 726-4712 x
Email Address jonathan.flomerfelt@arcadis-us.com

EDD Required : No

Sampled by : Kyle Haslan, Rory Henneck

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Client's COC # : 16049, 16050, 11012 Job : WA000804.2013/KMLT-Harbor Island

Cooler Temp **3 °C** Samples Received **01-Aug-13** Date Printed **01-Aug-13**

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests				Sample Remarks		
				300_0_W	METALS_A	METALS_D	METHANE_SULFIDE_W		TPHE_W	TPHP_W
ARC13080121-01A	A-5	07/29/13 17:15	3 0 10					NWTPH-GX	BIYE_C	
ARC13080121-02A	A-21	07/29/13 17:00	3 0 10					NWTPH-GX	BIYE_C	
ARC13080121-03A	A-23R	07/29/13 14:10	3 0 10					NWTPH-GX	BIYE_C	
ARC13080121-04A	A-27	07/30/13 08:00	9 0 10	NO3_SO4	Fe	CH4	Sulfide	NWTPH-GX	BIYE_C	
ARC13080121-05A	A-28R	07/29/13 15:40	3 0 10					NWTPH-GX	BIYE_C	
ARC13080121-06A	MW-6	07/29/13 15:10	3 0 10					NWTPH-GX	BIYE_C	
ARC13080121-07A	MW-7	07/30/13 12:25	9 0 10	NO3_SO4	Fe	CH4	Sulfide	NWTPH-GX	BIYE_C	
ARC13080121-08A	MW-9	07/30/13 09:30	9 0 10	NO3_SO4	Fe	CH4	Sulfide	NWTPH-GX	BIYE_C	
ARC13080121-09A	MW-14	07/30/13 08:50	3 0 10					NWTPH-GX	BIYE_C	
ARC13080121-10A	MW-18	07/29/13 14:40	3 0 10					NWTPH-GX	BIYE_C	

Comments: Security seals intact. Frozen ice. Total Xylenes. Please filter dissolved Fe. Some samples received or logged in outside the 48 Hr holding time for NO3 for an unpreserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis.

Logged in by: K Murray K Murray Signature Print Name Company Alpha Analytical, Inc. Date/Time 8/1/13 11:25

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

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 : ARCW13080121

Report Due By : 5:00 PM On : 15-Aug-13

Client:

Arcadis-US
1100 Olive Way, Suite 800

Report Attention

Jonathan Flomerfelt

Phone Number

(206) 726-4712 x

Email Address

jonathan.flomerfelt@arcadis-us.com

EDD Required : No

Sampled by : Kyle Haslan, Rory Henneck

Cooler Temp

3 °C

Samples Received

01-Aug-13

Date Printed

01-Aug-13

Seattle, WA 98101

PO :

Client's COC # : 16049, 16050, 11012

Job : WA000804.2013/KMLT-Heardor Island

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	METALS_A	METALS_D	METHANE_W	SULFIDE_W	TPHE_W		TPHP_W
ARC13080121-11A	MMW-19	07/30/13 09:25	3	0	10						NWTPH-GX	BTXE_C	
ARC13080121-12A	MMW-21	07/30/13 08:40	6	0	10						NWTPH-DX	BTXE_C	
ARC13080121-13A	MMW-23	07/29/13 16:40	3	0	10						NWTPH-GX	BTXE_C	
ARC13080121-14A	MMW-24	07/29/13 16:10	3	0	10						NWTPH-GX	BTXE_C	
ARC13080121-15A	TMW-1	07/30/13 10:50	6	0	10	NO3, SO4	Fe	Fe	CH4	Sulfide			
ARC13080121-16A	TMW-2	07/30/13 10:00	6	0	10	NO3, SO4	Fe	Fe	CH4	Sulfide			
ARC13080121-17A	TMW-3	07/30/13 13:00	6	0	10	NO3, SO4	Fe	Fe	CH4	Sulfide			
ARC13080121-18A	TMW-4	07/30/13 13:00	6	0	10	NO3, SO4	Fe	Fe	CH4	Sulfide			
ARC13080121-19A	TMW-5	07/30/13 10:15	6	0	10	NO3, SO4	Fe	Fe	CH4	Sulfide			
ARC13080121-20A	TMW-6	07/30/13 10:45	6	0	10	NO3, SO4	Fe	Fe	CH4	Sulfide			

Comments: Security seals intact. Frozen ice. Total Xylenes. Total Xylenes. Please filter dissolved Fe. Some samples received or logged in outside the 48 Hr. holding time for NO3 for an unpressurized bottle, therefore, the H2SO4 bottle will be used for NO3 analysis.

Signature

K Murray

Print Name

K Murray

Company

Alpha Analytical, Inc.

Date/Time

8/1/13 1125

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 : ARCW13080121
Report Due By : 5:00 PM On : 15-Aug-13

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

EDD Required : No

Sampled by : Kyle Haslan, Rory Henneck

Cooler Temp Samples Received Date Printed

3 °C 01-Aug-13 01-Aug-13

Client's COC # : 16049, 16050, 11012 Job : WAA000804.2013/KMLT-Harbor Island
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

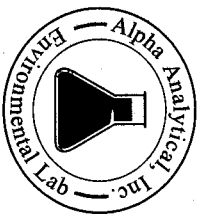
Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles	Alpha	Sub	TAT	Requested Tests						Sample Remarks				
							300_0_W	METALS_A	METALS_D	METHANE_W	SULFIDE_W	TPHE_W		TPHP_W	VOC_W		
ARC13080121-21A	11	07/30/13 12:30	6	0	0	10	NO3_S04	Fe	Fe	CH4	Sulfide						
ARC13080121-22A	BD-1	07/30/13 00:00	3	0	0	10											
ARC13080121-23A	TRIP BLANK	07/30/13 00:00	2	0	0	10											Reno Trip Blanks 6/26/13
ARC13080121-24A	DRUM 1	07/30/13 13:30	3	0	0	10											

Comments: Security seals intact. Frozen ice. Total Xylenes. Please filter dissolved Fe. Some samples received or logged in outside the 48 Hr holding time for NO3 for an unpresserved bottle, therefore, the H2SO4 bottle will be used for NO3 analysis.

Logged in by: K Murray Signature: _____ Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 8/1/13 11:25

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

Company: Kinder Morgan Energy Partners
 Attn: Robert Truitt
 Address: 1100 Capital Blvd
 City, State, Zip: Richmond CA 94804
 Phone Number: (510) 671-1678 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 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

16049

Page # 1 of 3

Company: ARCADIS U.S. Inc.
 Address: 1100 Olive Way Ste 800
 City, State, Zip: Seattle WA 98101

Job # WA0025042013
 Job Name: WTL - Archer Island
 P.O. #:
 Name: Jonathan Flowerfelt
 Email Address: jonathan.flowerfelt@arcadis-usa.com
 Phone #:
 Cell #:

Report Attention/Project Manager:
 EDD Required? Yes / No
 EDF Required? Yes / No

QC Deliverable Info:
 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 (HHMM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?		Analysis Requested										Remarks
							Yes	No	GRO by NUTPH-Cx	BTEX by 8260B	Nitrate by 300.0	Sulfide by 45005-D	Sulfate by 300.0	Methane by RSK175	Total Fe by Coio	Dissolved Fe by Guip			
1715	7/29/13	AQ	ARC/3080/21-01	A-5	10 day	3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1700	7/29/13	AQ		A-21		3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1410	7/29/13	AQ		A-23R		3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
800	7/30/13	AQ		A-27		9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1540	7/29/13	AQ		A-28R		3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1510	7/29/13	AQ		MW-6		3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1225	7/30/13	AQ		MW-7		9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
930	7/30/13	AQ		MW-9		9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
650	7/30/13	AQ		MW-14		3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1440	7/29/13	AQ		MW-16		3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
925	7/30/13	AQ		MW-19		3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

ADDITIONAL INSTRUCTIONS: Please lab filter for dissolved Fe.

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: Kyle Holden and Roy Henrick
 Date: 7-31-13
 Time: 10:00

Reinquired by: (Signature/Affiliation):
 Date: 9/11/13
 Time: 0940

Reinquired by: (Signature/Affiliation):
 Date: _____
 Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other SO - Soil ** 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.

Billing Information:
 Company: Kinder Morgan Energy Partners
 Attn: Robert Thompson
 Address: 1400 Geneva Blvd
 City, State, Zip: Richmond CA 94804
 Phone Number: (510) 672-1676 Fax:



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
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 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95627
 Southern NV: 8255 Meisod 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: 916-366-9089
 Phone: 702-281-4848
 Phone: 714-366-2901

11012

Page # 3 of 3

Consultant/Client Info:
 Company: ARCADIS U.S. Inc.
 Address: 100 Olive Way, Ste 605
 City, State, Zip: Seattle WA 98101

Job and Purchase Order Info:
 Job # WA0805042013
 Job Name: KMT-Hickam Island
 P.O. #

Report Attention/Project Manager:
 Name: Victoria Hornfeldt
 Email Address: victoria.hornfeldt@arcadis-us.com
 Phone #: 206-725-4712
 Cell #:

QC Deliverable Info:
 EDD Required? Yes / No
 EDF Required? Yes / No
 Global ID:
 Data Validation Level: III or IV

Samples Collected from which States? (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
1330	7/31/13	AQ	ARC13080121-23	TRIP BLANK	10dy	N	2V	GRO by NUTPH-6x BTEX by 8220B	

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 446.0636 (c) (2).

Sampled By: Kyle Heister and Katy Henneke
 Date: 7-31-13
 Time: 10:00
 Received by: (Signature/Affiliation): K Murray/AAI
 Date: 8/1/13
 Time: 0940
 Relinquished by: (Signature/Affiliation):
 Date:
 Relinquished by: (Signature/Affiliation):
 Date:

* Key: AQ - Aqueous WA - Waste OT - Other L - Lifer 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.